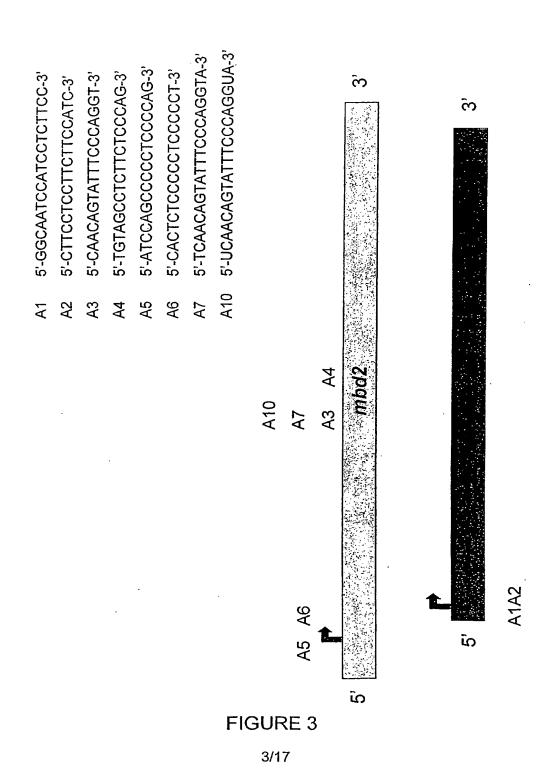
	v20	v30	v40	v50	v60	v70	v80	00		
v10 GGGGCCTGGCCCCC							VOU GGCCACGCC	V90 CCGGGCAGGAG	v100 GGCCGCTCTGT	VIIC
SGGGGCGTGGCCC G	AG AGGCGGA	AGACAA ATGG	cc c c	GCTTGGAGG	ACCTAAGAGG	CG GGCCG	GGCCACGCC	CGGGC GGAG	GGCCGCTCTGT	GCGC
GGGCGTGGCCCAG	AGGAGGCGGA	GACAATATGG	CCTCGCCCCT	'AGCTTGGAGG	ACCTAAGAGG	CGC-GGCCGG	GGCCACGCC	CGGGCGGGAG	GCCGCTCTGT	GCGC
^10	~20	^30	^40	<b>~5</b> 0	^60	^70	^80	^90	~100	^110
v120	v130	v140	v150	v160	v170	v180	v190	¥200	v210	v220
CCGCTCTATGATG	CTTGCGCGCG	TCCCCCGCGC	GCCGCGCTGC			ATTCCAAGG	CTCGGTTACC	GAAGAAGCGC	AGCGCCGGCTG	
CCGCTCTATGATG	CTTGCGCGCG	TCCCCCGCGC	GCCGC CTGC	GGGGGGGGGG	GGTCTCCGGG.	ATTCCAAGGG	CTCGGTTACG	GAAGAAGCGC	AG GCCGGCTG	GGGA
CCCCTCTATGATG	CTTGCGCGCG	TCCCCCGCGC	GCCGCTCTGC	GGGCGGGGGGG	GGTCTCCGGG	ATTCCAAGGG	CTCGGTTACG	GAAGAAGCGC	GAGCCGGCTG	GGGA
^120	^130	^140	^150	^160	^170	^180	^190	^200	~210	^220
v230	v240	v250	v260	v270	v280	v290	v300	v310	v320	v330
GGGCTGGATGCGC	GCGCACCCGG	GGGGAGGCCG	CTGCTGCCCG	GAGCAGGAGG	AGGGGGAGAG	TGCGGCGGG	GGCAGCGGCG	CTGGCGGCGAG	TCCGCCATAG	AGCA
GGGCTGGATGCGC	GCGCACCCGG	GGGGAGGCCG	CTGCTGCCCG	GAGCAGGAGG	AGGGGGAGAG	GCGGCGGG	GGCAGCGGCG	CTGGCGGCGAC	TCCGCCATAG	ACCA .
GGGCTGGATGCGC	GCGCACCCGG	GGGGAGGCCGC	CTGCTGCCCG	GAGCAGGAGG	AGGGGGAGAG	CGCGGCGGGC	GGCAGCGGCG	CTGGCGGCGAC	TCCGCCATAG	AGCA
^230	^240	^250	^260	^270	^280	^290	^300	^310	^320	^330
v340	v350	v360	v370	v380	v390	v400	V410	v420	v430	v440
GGGGCCAGGGCAG	CGCGCTCGCC	CCGTCCCCGG1	rgageggegt	GCGCAGGGAAG	GCGCTCGGG	CGGCGGCCG	TGGCCGGGGG	CGGTGGAAGCA	GGCGGGCCGG	GCC
GGGGCCAGGGCAG	CGCGCTCGC (	CCGTCCCCGG1	PGAGCGGCGT	GCGCAGGGAAG	GCGCTCGGG	SCGGCGGCCG	TGGCCGGGGG	CCCTCCAACCA	eccec ccec	ccc
GGGGCCAGGGCAG	CGCGCTCGCT	CCGTCCCCGGT	rgagegegegt	CGCAGGGAAG	GCGCTCGGG	CGGCGGCCG	TGGCCGGGGG	CGGTGGAAGCA	GCCGCCCCGG	GCG
^340	^350	^360	^370	^380	^390	^400	^410	^420	^430	^440
v450	v460	v470	v480	V490	v500	v510	v520	v530	v540	v550
GGCGTCTGTGGCC	GTGGCCGGGG	CCGGGGCCGTG	GCCGGGGAC	GGGACGGGG	CGGGGCCGGG	GCCGCGGCC	STCCCCCGAG	TGGCGGCAGCG	CCCTTGGCGGG	GAC
SGCGTCTGTGGCCC	GTGGCCG GG(	CCG GGCCG G	G CGGGG CC	G G CGGGGC	CGGGGCCGGG	GCCGCGGCC	STCCCC GAG	TEGCECCACCE	ccerrecces	CAC
GGCGTCTGTGGCC	GTGGCCGTGGC	CCGTGGCCGGG	GTCGGGGCCC	TGGCCGGGGC	CGGGGCCGGG	GCCGCGGCC	TCCCCAGAG*	<b>PGGCGGCAGCG</b>	GCCTTGGCGGC	GAC
~450	^460	^470	^480	^490	^500	^510	^520	^530	^540	^550
v560		v570	v580	v590	₩600	v610	v620	v630	v640	¥650
CGGCGGCTGCG	GCGG	CGGCGGCAGC	GGTGGCGGCG	GCGCCCCCG	GCGGGAGCCG	GTCCCTTTC	CGTCGGGGA	SCGCGGGGCCG	GGGCCCAGGGG	ACC
CGGCGGC GCG	GCGG	SCG CGGCAGC	GGTGGCGGCG	CGCCCCCCG	GCGGGA CC	GTCCCTTTCC	CGTCGGGGA	SC CGGGGGCGG	GGCCCAGGG	ACC
CGCCGCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	GCCGCCTGCGC	SCGTCGGCAGC	GGTGGCGGCG	TCGCCCCCC	GCGGGATCCT	GTCCCTTTC	CGTCGGGGA	CTCGGGGCCG	GGCCCAGGGG	ACC
^560	^570	^580	^590	^600	^610	<b>^620</b>	^630	^640	^650	^660
v660	v670	v680	v690	v700	v710	v720	v730	v740	v750	v760
GGCCACGGAGAGC		TGGATTGCCC					AAATCTGGGC	TARGTGCTGG	V/3U	T/60
<b>GGCCACGGAGAGC</b>	CGGGAAGAGGA	NTGGA TGCCC	GGCCCTCCCC	CCCGGATGGA	AGAAGGAGGA	AGTGATCCG#	AAATC GGGC	T AGTGCTGG	CARGAGEGATE	TOP
GGGCCACGGAGAGG	GGGAAGAGGA	TGGACTGCCC	GGCCCTCCCC	CCCGGATGGA	AGAAGGAGGA	AGTGATCCG	AAATCAGGGG	TCAGTGCTGG	TA A GAGCGATG	TOI
^67 <b>0</b>	^680	^690	^700	^710	^720	^730	^740	^750	^760	^770
<b>v770</b>	v780	v790	¥800	v810	v820	v830	v840	v850		
ACTTCAGGTCCAA				TGGCAAGGTA		ACTGTTGATC	ひなるひ	VOJU TCD CTTCACAC	V860	v870
ACTICAG TOCAA	GTGGTAAGAA	GTTCAGAAG	AA CCTCAG	TGGCAAG TA	CCTGGGAAAT	CTGTTGA	T ACCACTT	TCACTICAGA	C CC ARCAT	GAT
ACTTCAG-TCCAA	GTGGTAAGAA	GTTCAGAAGT	AAACCTCAGC	TGGCAAGATA	CCTGGGAAAT	GCTGTTGACC	TTAGCAGTTT	TGACIICAG A	CCCCCAAGAT	GAT
^780	^790	<b>^800</b>	^810	^820	^830	^840	^850	^860	^870	GAT
<b>v8</b> 80	v890	v900	v910	v920	v930	V940	•			
CTAGTAAATTACAG		AGAGACTGCG	AAACGATCCT	CTCAATCAAA	TARGCCTAR!	VP4U COMMAN	v950	v960	₩970	₹980
CTAGTAAATTACAG	AAGAACAA C	AGAGACT CG	AA GA CC	CTCAATCA A	AACCCTAA	ACCAGACITG	AAIACAACAT	TGCCAATTAGA	CAAACAGCAT	CAA
CTAGTAAATTACAG	AAGAACAAGC	AGAGACTCCG	GAATGACCCC	CTCAATCAGA	ACAAGGGTAAI	ACCAGACCTG	TO MEMBERS	TGCCARI IAGA TGCCD NTTNCA	CAAAC GCAT	CAA
80 , ^890	^900	^910	^920	^930	^940	^950	^960	^970	^980	
v990	v1000	v1010	v1020	v1030	v1040	v1050				
TCAAACAACCGGT					TACCCACASC	シェッシュート シェッショ	V1060 ACAGCCACCT	V1070	v1080	v1090
	AACCAAAGTC					~~urannia	nunculALGT	undul PTTCTG	งษณะคลGAGG(	JIR
TTCAA CAACC GT	AACCAAAGTC AACCAAA TC	AC AA CA C	AG AATAR	GTGAA TCAC	SACCC CA CC	* ATC> ****			CC>C>>~~~	
PTCAA CAACC GT	AACCAAA TC	ac aa ca co	AG AATAA	GTGAA TCAC	SACCC CA CO	GATGAATGA	ACA CCACGT	CAGCTTTTCTG	GGAGAAGAGGG	CTA
TCAA CAACC GT TCAAGCAACCAGT	AACCAAA TC	ac aa ca co	AG AATAA	GTGAA TCAG GGTGAAGTCAG	EACCC CA CO	Gatgaatga	ACAACCACGT	CAGCTTTTCTG	GGAGAAGAGGG	eta Eta
TCAA CAACC GT TCAAGCAACCAGT 00 ^1000	AACCAAA TC AACCAAATTC ^1010	AC AA CA CO ACGAACCACCO ^1020	AG AATAA SA S MAATAASSAS MAATAAS	GTGAA TCAG GGTGAAGTCAG ^1040	EACCC CA CO EACCCCCAGCO ^1050	GATGAATGA ^1060	ACAACCACGT ^1070	CAGCTTTTCTG ^1080	*1090	CTA
PTCAA CAACC GT PTCAAGCAACCAGT 90 ^1000 • v1100	AACCAAA TC AACCAAATTC ^1010 v1110	AC AA CA CC ACGAACCACCC ^1020 V1120	AG AATAA CAGCAATAA ^1030 V1130	GTGAA TCAG GGTGAAGTCAG ^1040 V1140	ACCC CA CO ACCCCCAGCO ^1050 v1150	**************************************	^1070	CAGCTTTTCTG ~1080	**************************************	CTA
TCAA CAACC GT TCAAGCAACCAGT 00 ^1000 · v1100 GGACTTAGTGCAT	AACCAAA TC AACCAAATTC ^1010 v1110 CAGATGTAAC	AC AA CA CO ACGAACCACCO ^1020 v1120 AGAACAAATTA	AG AATAA CGAGCAATAA (1030 V1130 V113AAAACCA	GTGAA TCAG GGTGAAGTCAG ^1040 V1140 FGGAACTACCG	ACCC CA CO ACCCCCAGCO ^1050 V1150 AAAGGTCTTO	GATGAATGA ^1060 v1160 CAAGGAGTTG	ACAACCACGT ^1070 v1170 STCCAGGTAG	CAGCTTTTCTG ^1080 v1180 CAATGATGAGA	GGAGAAGAGGG ^1090 v1190 CCCTTTTATCT	v1200
TTCAR CARCE GT TTCARGCARCEAGT 90 ^1000 · v1100 AGGACTTAGTGCAT	AACCAAA TC AACCAAATTC ^1010 v1110 CAGATGTAAC CAGATGTAAC	AC AA CA CO ACGAACCACCO ^1020 V1120 AGAACAAATTA AGAACAAATTA	AG AATAA CGAGCAATAA 1030 V1130 XTAAAAACCA	GTGAA TCAG GGTGAAGTCAG ^1040 V1140 TGGAACTACCG TGGA CTACC	ACCC CA CO SACCCCCAGCO ^1050 V1150 CARAGGTCTTO	*1060 *1060 *1160 *AAGGAGTTG	ACAACCACGT ^1070 v1170 STCCAGGTAG	CAGCTTTTCTG ^1080 v1180 CAATGATGAGA	GGAGAAGAGGG ^1090 v1190 CCCTTTTATC1	v1200
TTCAA CAACC GT TTCAAGCAACCAGT 00 ^1000 · VI100 AGGACTTAGTGCAT AGGACTTAG GCAT AGGACTTAGCGCAT	AACCAAA TC: AACCAAATTC: ^1010 v1110 CAGATGTAAC: CAGATGTAAC: CAGATGTAAC:	AC AA CA CO ACGAACCACCO ^1020 V1120 AGAACAAATTA AGAACAAATTA	AG RATAR CGAGCAATAA (1030 V1130 V1130 ATAAAAACCA ATAAAAACCA	GTGAA TCAG GGTGAAGTCAG ^1040 V1140 TGGAACTACCG TGGA CTACC TGGAGCTACCT	AAGGTCTTC AAAGGTCTTC	GATGAATGA ^1060 v1160 CAAGGAGTTG CAAGGAGT G	ACAACCACGT ^1070 v1170 STCCAGGTAG STCCAGGTAG STCCAGGTAG	CAGCTTTTCTG ~1080 ~1180 CAATGATGAGA CAATGA GAGA CAATGACGAGA	GGAGAAGAGGG ^1090 v1190 CCCTTTTATCT CCCTT T TCT	v1200
TCAA CAACC GT TCAAGCAACCAGT 0 ^1000 · v1100	AACCAAA TC. AACCAAATTC. ^1010 v1110 CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. ^1120	AC AA CA CC ACGAACCACCC ^1020 V1120 AGAACAAATTA AGAACAAATTA AGAACAAATTA ^1130	E AG ARTAR CGAGCAATAAA ^1030 V1130 ATAAAAAACCAA ATAAAAACCAA ^1140	GTGAA TCAG GGTGAAGTCAG ^1040 V1140 TGGAACTACCG TGGA CTACC TGGAGCTACCT ^1150	AAAGGTCTTC  AAAGGTCTTC  AAAGGTCTTC  AAAGGTCTTC  AAAGGTCTTC  AAAGGTCTTC  AAAGGTCTTC	GGATGAATGA ^1060 v1160 CAAGGAGTTG CAAGGAGT G CAAGGAGTCG ^1170	ACAACCACGT  ^1070  v1170  STCCAGGTAGG  STCCAGGTAGG  CTCCAGGTAGG  ^1180	CAGCTTTTCTG ~1080 V1180 CAATGATGAGA CAATGA GAGA CAATGACGAGA ~1190	GGAGAAGAGGG  ^1090  v1190  CCCTTTTATCT  CCCTTCTGTCT  ^1200	v1200
TCAA CAACC GT TCAAGCAACCAGT 0 ^1000 v1100 GGACTTAGTGCAT GGACTTAG GCAT GGACTTAGTGCAT 00 ^1110 v1210	AACCAAA TC. AACCAAATTC. ~1010 V1110 CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. ~1120 V1220	AC AA CA CA ACGAACCACCC	C AG AATAA CGAGCAATAA ^1030 V1130 ATAAAAACCA: ATAAAAACCA: ^1140 V1240	GTGAA TCAG GGTGAAGTCAG ^1040 v1140 v1140 rGGAACTACCC rGGA CTACC rGGAGCTACCI ^1150 v1250	FACCC CA CO FACCCCCAGCO *1050 V1150 FAAAGGTCTTC AAAGGTCTTC *AAAGGTCTTC *AAAGGTCTTC *AAAGGTCTTC *AAAGGTCTTC *AAAGGTCTTC *AAAGGTCTTC *AAAGGTCTTC	GGATGAATGA ^1060 v1160 :AAGGAGTTG: :AAGGAGTTG :AAGGAGTCG ^1170 v1270	ACAACCACGT  ^1070  v1170  STCCAGGTAG  STCCAGGTAG  STCCAGGTAG  1180  v1280	CAGCTTTTCTG ^1080 v1180 CAATGATGAGA CAATGA GAGA CAATGACGAGA ^1190	GGAGAAGAGG  1090  v1190  CCCTTTTATCT  CCCTT T TCT  CCCTTCTGTCT  1200	V1200 FGC FGC
TTCAA CAACC GT TTCAAGCAACCAGT 90 ^1000  V1100 AGGACTTAGTGCAT AGGACTTAG GCAT AGGACTTAG GCAT 100 ^1110  V1210  FTGCCAGTGCTTTG	AACCAAA TC. AACCAAATTC. ~1010 V1110 CAGATGTAAC. CAGATGTAAC. ^1120 V1220 CACACAAGCT.	AC AA CA CA ACGAACCACCA ^1020 V1120 AGAACAAATTA AGAACAAATTA ^1130 V1230 CTGCGCCAATC	CAG ARTAR CGAGCARTAN 1030 V1130 ATARARACCA ATARARACCA 1140 V1240 CACAGGGCAR	GTGAA TCAG GGTGAAGTCAG ^1040  V1140  V1140  FGGAACTACCC FGGACTACCC ^1150  V1250  FTTTCGGTGG	AAAGGTCTTC  AAAAGGTCTTC  AAAAAGGTCTTC  AAAAAGGTCTTC  AAAAAGGTCTTC  AAAAAAAAAA	GATGAATGA ^1060 v1160 :AAGGAGTTG :AAGGAGT G :AAGGAGTCG ^1170 v1270 :AACCTGCTGCT	ACAACCACGT  ^1070  v1170  STCCAGGTAG  STCCAGGTAG  STCCAGGTAG  ^1180  v1280	CAGCTTTTCTG ^1080 v1180 CAATGATGAGA CAATGACGAGA CAATGACGAGA ^1190 v1290	GGAGAAGAGG  1090  v1190  cccttttatct ccctt t tct cccttctctct 1200  v1300	v1200 rgc rgc rgc v1310
TICAR CRACE GT TTCARGCARCACT TTCARGCARCACT TTCARGCACTTAGTGCAT AGGACTTAGTGCAT AGGACTTAGTGCAT AGGACTTAGTGCAT AGGACTTAGTGCAT TGCAGTGCTTTG TGCCAGTGCTTTG TGCCAGTGCTTTT CCCAGTGCTTTT	AACCAAA TC: AACCAAATTC: A1010 V1110 CAGATGTAAC: CAGATGTAAC: CAGATGTAAC: V1220 V1220 CACACAAGCTC CACACAAGCTC	AC AA CA CA ACGAACCACC ^1020 v1120 AGAACAAATTA AGAACAAATTA ^1130 v1230 CTGCGCCAATC	CAG ARTAN CAGCARTAN 1030 V1130 ATANANACCA: ATANANACCA: 1140 V1240 CACAGGGCAA: CACAGG CAA:	GTGAA TCAG GGTGAAGTCAG ^1040 V1140 TGGAACTACCT TGGA CTACC TGGAGCTACCT ^1150 V1250 FTCTCCGCTGG	ACCC CA CO SACCCCCAGCO  1050  V1150  CARAGGTCTTC  ARAGGTCTTC  1160  V1260  TGTGGARAGG	GGATGAATGA ^1060 v1160 chaggagttg chaggagtcg ^1170 v1270 chacctgctchacctctchaccctgctchaccctgctchaccctgctchaccctgctchaccctgctchaccctgctchaccctgctchaccctgctchaccctgctchaccctgctchaccctgctchaccctgctchaccctgctchaccctgctchaccctcctcctchaccctcctcctchaccctcctcctchaccctcctchaccctcctchaccctcctchaccctcctcctchaccctchacc	ACAACCACGT ^1070 v1170 stccaggtagg stccaggtagg stccaggtagg ^1180 v1280 stttggcttag	CAGCTTTTCTG	GGAGAAGAGG  ^1090  v1190 CCCTTTTATCT CCCTTCTGTCT  ^1200  v1300 CCCCTCTGCAA	v1200 rgc rgc rgc v1310
TTCAR CAACC GT TTCARGCACCACT 90 ^1000 V1100 AGGACTTAGTGCAT AGGACTTAG GCAT 100 ^1110 V1210 TTGCCAGTGCTTT TGGCCAGTGCTTTT TGGCCAGTGCTTTTA	AACCAAATTC  AACCAAATTC  ATOTO  V1110  CAGATGTAACI CAGATGTAACI CAGATGTAACI ATOTO  V1220  CACACAAGCTC CACACAAGCTC CACACAAGCTC	AC AA CA ACGAACCAACG ^1020 V1120 AGAACAAATTA AGAACAAATTA ^1130 V1230 CTGCGCCAATC CTGCGCCCATC	Z AG ARTAR CGAGCARTAN 1030 V1130 ATARARACCA ATARARACCA 1140 V1240 ANCAGGACAR ACAGGACAR ACAGGACAR ACAGGACAR ACAGGACAR ACAGGACAR	GTGAA TCAG GGTGAAGTCAG  ^1040  V1140 FGGAAGTACC FGGA CTACC FGGAGCTACCT  ^1150  V1250 FTCTCCGCTGC FTCTCTGCTGC	ACCC CA CO SACCCCCAGCE ^1050 V1150 CAAAGGTCTTC AAAGGTCTTC ^1160 V1260 TTGTGGAAAAG CGTGGAAAAG	GATGAATGA ^1060 v1160 v1160 chaggagttg chaggagttg ^1170 v1270 chaccttgct chaccttgct chaccttgct	ACAACCACGT ^1070 v1170 stccaggtag stccaggtag c1180 v1280 stttggcttal stttggcttal	CAGCTTTTCTG	GGAGANGAGG  1090  v1190  CCCTTTTATCT CCCTT T TCT CCCTTCTGTCT  1200  v1300  CCCCTCTGCAN CCCCTCTGCAN CCCCTCTGCAN	v1200 rgc rgc rgc v1310
TTCAR CAACC GT TTCARGCAACCACT 90 ^1000 VI100 AGGACTTAGTGCAT AGGACTTAGTGCAT AGGACTTAGTGCAT 100 ^1110 VI210 TTGCCAGTGCTTTG GCGCCAGTGCTTTG TGGCCAGTGCTTTA	AACCAAATTC AACCAAATTC 1010 V1110 CAGATGTAAC CAGATGTAAC CAGATGTAAC 1120 V1220 CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC	AC AA CA CA ACGAACCACCA ACGAACCACCA ACGAACAAATTA ACGAACAAATTA ACGAACAAATTA ACGAACAAATTA ACGAACCAATCA ACGCCCAATC CTGCGCCCAATC CTGCGCCCAATC ACGCCCCATC	E AG ARTAR CGAGCARTAN 1030 V1130 RARARACCA TRARARACCA 1140 V1240 CACAGGGCARA ACAGGGCARA ACAGGACAA ACAGGACAA 1250	GTGAA TCAG GGTGAAGTCAG ^1040 V1140 FGGAACTACCC FGGAGCTACCCC ^1150 V1250 V1250 STCTCCGCTGG STCTCTCGCTGC ^1260	ACCC CA CC SACCCCAGCC  1050  V1150  CAAAGGTCTTC AAAGGTCTTC  AAAGGTCTTC  CAAGGTCTTC  CAAGGTCTTC  CAAGGTCTTC  CAAGGTCTTC  AAAGGTCTTC  AAAGGTCTTC  AAAGGTCTTC  AAAGGTCTTA  AAAGGTCTTA  AAAGGTCTAAAAG  CGTGGAAAAG  A1270	GATGAATGA  1060  1160  2AAGGAGTTG  AAGGAGT G  AAGGAGT G  1170  1270  AACCCTGCTI  AACCCTGCTI  AACCCTGCTI	ACAACCACGT ^1070 v1170 stccaggtagg stccaggtagg stccaggtagg ^1180 v1280 stttggcttag	CAGCTTTTCTG	GGAGAAGAGG  ^1090  v1190 CCCTTTTATCT CCCTTCTGTCT  ^1200  v1300 CCCCTCTGCAA	v1200 rgc rgc rgc v1310
TTCAA CAACC GT TTCAAGCACCACC 90 ^1000 v1100 AGGACTTAGTGCAT AGGACTTAG GCAT 100 v1210 TTGCCAGTGCTTTA TGGCCAGTGCTTTTA	AACCAAATTC  ACCAAATTC  ACCAAATTC  ACCAAATTC  V1110  CAGATGTAACI CAGATGTAACI CAGATGTAACI CAGATGTAACI CAGATGTAACI CACACAAGCTC ACCACAAGCTC ACCACAAACAACAACAACAACAACAACAACAACAACAA	AC AA CA CC ACGAACCACCA ACGAACCACCAC ACGAACCAAATTI ACGAACCAAATTI ACGAACCAAATTI ACGACCAATC TGCGCCCAATC CTGCGCCCAATC CTGCGCCCATC ACCACCACCACC ACCACCACCACCACCACCACCACCA	E AG ANTAR CGAGCANTAN 1030 V1130 RTANARACCA: VTARARACCA: A1140 V1240 CACAGGGCARA CACAGGCARA A1250 V1350	GTGAA TCAG GGTGAAGTCAG ^1040 V1140 V1140 TGGAACTACCT GGAGCTACCT ^1150 V1250 STCTCCGGTGG STCTC GCTGG 5TCTC GCTGG ^1260 V1360	ACCC CA CO SACCCCCAGCO 1050 V1150 CAAAGGTCTTC AAAGGTCTTC CAAAGGTCTTC CAAAGGTCTTC CAAAGGTCTTC CAAAGGTCTTC CAAAGGTCTTC CAAAAGGTCTTC AAAGGTCTTC AAAGGTCTTC AAAGGTCTTC AAAGGTCTTCAAAAGGTCGAAAAGGTCGAAAAGGAAAAGGTCTCAAAAGGTCTTCAAAAGGTCTTCAAAAGGTCTTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAGGTCTCAAAAAAGGTCTCAAAAAGGTCTCAAAAAAAA	GATGAATGA  ^1060  v1160  v1160  chaggagttg chaggagt g chaggagtcg ^1170  v1270  chaccotgctt chaccotgctt chaccotgctt chaccotgctt chaccotgctt v1280  v1380	ACAACCACGT ~1070 v1170 stccaggtag stccaggtag stccaggtag ~1180 stitgggttag stitgggttag stittgggttag tittgggttag ~1290 v1390	CAGCTTTTCTG ^1080 v1180 CAATGATGAGA CAATGA GAGA CAATGA GAGA CAATGACGACA ^1190 v1290 ACACATCTCAA ACACATCTCAA ACACATCTCAA 1300 v1400	GGAGAAGAGGG  1090  V1190  CCCTT T TCT CCCTTTTATCT CCCTTTTGTCT  1200  V1300  CCCCTCTGGAA CCCCTCTGGAA  1310  V1410	V1200 FGC FGC FGC V1310 NAG NAG NAG V1420
TTCAR CAACC GT TTCARGCACCACT 90 ^1000 V1100 AGGACTTAGTGCAT AGGACTTAGTGCAT 100 V1210 TTGCCAGTGCTTTA TGGCAGTGCTTTTA TGGCCAGTGCTTTA TGGCCAGTGCTTTA 210 ^1220 V1320 TTATTGTCACAGA	AACCAAATTC AACCAAATTC 1010 V1110 CAGATGTAACI CAGATGTAACI CAGATGTAACI CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC	AC AA CA CA ACGAACCACCA ACGAACAAATTA AGAACAAATTA AGAACAAATTA ACGAACAAATTA CTGCGCCAATC CTGCGCCCATC ACGACAAACAAATTA ACGAACAAATTA ACGAACAAATTA ACGAACAAATTA ACGAACAAATTA ACGAACAAATTA ACGAACAAATTA ACGAAACAAAATTA ACGAAAAAATTA ACGAAAAAAAAAA	E AG ARTAR CGAGCARTAN 1030 V1130 TARARACCA TARARACCA 1140 V1240 EACAGGGCAN EACAGGCAN 1250 LAGAGGAGAA	GTGAA TCAG GGTGAAGTCAK ^1040 V1140 FGGAACTACCC FGGAGCTACCT ^1150 V1250 STCTCCGCTGC STCTC GCTGG FTCTCTGCTGC ^1260 V1360 CCAGGCAAGTAC	ACCC CA CC ACCCCAGCC ACCCCAGCC ACCCCAGCC ACCCCCAGCCCCCCCC	GGATGAATGA ^1060 v1160 claaggagttg claaggagttg claaggagttg ~1170 v1270 claaccttgcti	ACAACCACGT ^1070 v1170 stccagtagg stccaggtagg ^1180 v1280 stttaggttag stttaggttag stttaggttag rittaggttag 1290 v1390	CAGCTTTTCTG  v1180  v1180  chatgatgaga chatga gaga chatgacagaga v1190  v1290 Acachatctchai Acachtctchai Acachtctchai 1300  v1400  v1000	GGAGAAGAGG  1090  v1190  ccctttatct ccctt t tct cccttctgtct	V1200 FGC FGC FGC V1310 AAG AAG V1420
TTCAR CAACC GT TTCARGCARCACACT 00 ^1000 - v1100 - v1100 - GGGACTTAGTGCAT GGGACTTAG GCAT GGGACTTAG GCAT GGGACTTAGTGCAT GGCAGTGCTTTG TGCCAGTGCTTTG TGCCAGTGCTTTA TGCCAGTGCTTTA TTGTCACAGA TT ATTGTCACAGA TT ATTGT ACAGA TT	AACCAAR TC. AACCAARTC. A1010 V1110 CAGATGTAACI CAGATGTAACI CAGATGTAACI V1220 CACACAAGGCT CACACAAGGCT CACACAAGGCT A1230 V1330 TGAAGACATAT TGAAGACATAT TGAAGACATAT	AC AR CA CC ACGAACCACCC ACGAACCACCC ACGACCACACCACCC ACGACCACACCCCACCCCCACCCCCCACCCCCCCC	E AG AATAN  CGAGCAATAN  1030  V1130  V1130  V1140  V1240  V1240  CACAGGGCAN  CACAGGGCAN  CACAGGGCAN  1250  V1350  LAGAGCGAGT/ LAGAGCGAGT/ LAGAGGGGAGT/ LAGAGGGGAGT/ LAGAGGGGGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/	GTGAA TCAG GGTGAAGTCAG A1040 V1140 V1140 TGGA CTACC TGGA CTACC A1150 V1250 V1250 STCTCCGCTGC STCTC GCTGC TCTCTCTGCTGC A1260 V1360 ACAGCAAGTAC	ACCC CA CC SACCCCCAGCC  1050  V1150  CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC  V1260  TGTGGARARG CGTGGARARG CGTGGARARGA CGTGGARARGARATC CGCARGARATC CGCARGARATC CGCARGARATC	GATGAATGA  V1160  V1160  CAAGGAGTTG  CAAGGAGTTG  ~1170  V1270  CAACCCTGCTI  CAACCCTGCTI  CAACCAGATTGG  ~1280  V1380  GGAAGAAGAGAGGGA GGA GGA GGA GGA GGA	ACACCACGT  v1170  v1170  strcaggtagg strcaggtagg strcaggtagg 1180  v1280  strtaggttag strtaggttag 11290  v1390  cttgataggag  cttgatagga	CAGCTTTTCTG  v1180  v1180  cAATGATGAGA cAATGA GAGA cAATGACGAGA  ^1190  v1290  ACACATCTCAA ACACATCTCAA ACACATCTCAA  ACACATCTCAA  1300  v1400  JACATCTTGTCC  JACATCTTCTC  JACATCTTGTCC  JACATCTTCTCC  JACATCTTCTCT  JACATCTTCTCC  JACATCTCTCC  JACATCTTCTCC  JACATCT  JACATCTTCTCC  JACATCT  JAC	GGAGAAGAGG  1090  **1190  CCCTTTTATCT  CCCTT T TCT  CCCTTTGTCT  **1200  **1300  CCCCCTCTGCAA  CCCCCTCTCAA  CCCCTCTCAA  CCCCCTCTCAA  CCCCCTCTCAA  CCCCCTCTCAA  CCCCCTCTCAA  CCCCTCTCAA  CCCCCTCTCAA  CC	V1200 FGC FGC FGC V1310 LAG
TTCAR CAACC GT TTCARGCAACCAGT 00 ~1000 V1100 AGGACTTAGTGCAT AGGACTTAG GCAT AGGACTTAG GCAT AGGACTTAG GCAT AGGACTTAG GCAT AGGACTTAG CAT AGGACTTAG CAT AGGACTTAG V1210 TGCCAGTGCTTTA 110 ~1220 V1320 TTATTGTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TTCATTGTTACAGA TTCATTGTTACAGA TCATTGTTACAGA TCA	AACCAAA TC. AACCAAAATC. A1010 V1110 V1110 CAGATGTAAC. CAGATGTAAC. A1120 V1220 CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC TCACACAAGCTC TCACACAAGCTC TCACACAAGCTC TCACACAAGCTC TGAAGACATC) TGAAGACATC)	AC AA CA CC ACGAACCACCC ACGAACCACCC ACGAACAAATTA AGAACAAATTA ACGAACAACCCAACC	E AG AATAA CGAGCAATAAN 1030 V1130 ATAAAAACCA: ATAAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAACCA: ATAAAACCA: ATAAAACCA: ATAAAACCA: ATAAAACCA:	GTGAA TCAM GGGTGAAGTCAM ^1040 V1140 V1140 TGGA GTACC TGGAGCTACCT ^1150 V1250 TCTCCCGCTGC FTCTCCGCTGC FTCTCTGCTGC ^1260 V1360 CAGCAAGTAC CA CAAGTAC CAACAAGTAC	ACCC CA CC SACCCCAGCC  1050  V1150  V1150  CARAGGTCTTC CARAGGTCTTC  CARAGGTCTTC  CICAGGARARG CGTGGARARG  CGTGGARARG  1270  V1370  CGCARGARATT CGCARGARATT	GGATGAATGA  V1160  V1160  CAAGGAGTTG CAAGGAGT G -1170  V1270 CAACCCTGCTC CAACCCTGCTC AACCCTGCTC AACCCTGCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT	ACAACACGT  ^1070  v1170  STCCAGGTAG  FTCCAGGTAG  FTCCAGGTAG  ^1180  v1280  FTTTGGCTTAI  FTTTGGCTTAI  -1290  v1390  ACTGATGGCCC  ACTGATGGCCC  ACTGATGGCCC	CAGCTTTTCTG  1080  V1180  CAATGATGAGA CAATGAGGAGA  ^1190  V1290 ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAA 1300  V1400  V1400  SACATCTTGTC SACATCTGTC SACATCTCTGTC SACATCTCTGTC	GGAGAAGAGG  1090  v1190 CCCTTTTATCT CCCTT T TCT CCCTTCTGCAT 1200  v1300 CCCCTCTGCAA CCCCTCTGCAA CCCCTCTGCAA CCCCTCTGCAA CCCCTCTGCAA CCCCTCTGCAC CCCCTCTGCAC CCCCTCTGCAC CCCCTCTGCAC CCCCCTCTGCAC CCCCCTCTGCAC CCCCCTCTGCAC CCCCCTCTGCAC CCCCCTCTGCAC CCCCCTCTGCAC CCCCCTCTGCAC CCCCCTCTGCAC CCCCCCTGCCAC CCCCCCTGCCAC CCCCCCCCCC	V1200 FGC FGC FGC V1310 LAG
TTCAR CAACC GT TTCARGCAACCAGT 00 ~1000 V1100 AGGACTTAGTGCAT AGGACTTAG GCAT AGGACTTAG GCAT AGGACTTAG GCAT AGGACTTAG GCAT AGGACTTAG CAT AGGACTTAG CAT AGGACTTAG V1210 TGCCAGTGCTTTA 110 ~1220 V1320 TTATTGTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TCATTGTTACAGA TTCATTGTTACAGA TTCATTGTTACAGA TCATTGTTACAGA TCA	AACCAAR TC. AACCAARTC. A1010 V1110 CAGATGTAACI CAGATGTAACI CAGATGTAACI V1220 CACACAAGGCT CACACAAGGCT CACACAAGGCT A1230 V1330 TGAAGACATAT TGAAGACATAT TGAAGACATAT	AC AR CA CC ACGAACCACCC ACGAACCACCC ACGACCACACCACCC ACGACCACACCCCACCCCCACCCCCCACCCCCCCC	E AG AATAN  CGAGCAATAN  1030  V1130  V1130  V1140  V1240  V1240  CACAGGGCAN  CACAGGGCAN  CACAGGGCAN  1250  V1350  LAGAGCGAGT/ LAGAGCGAGT/ LAGAGGGGAGT/ LAGAGGGGAGT/ LAGAGGGGGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/ LAGAGCGAGT/	GTGAA TCAG GGTGAAGTCAG A1040 V1140 V1140 TGGA CTACC TGGA CTACC A1150 V1250 V1250 STCTCCGCTGC STCTC GCTGC TCTCTCTGCTGC A1260 V1360 ACAGCAAGTAC	ACCC CA CC SACCCCCAGCC  1050  V1150  CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC  V1260  TGTGGARARG CGTGGARARG CGTGGARARGA CGTGGARARGARATC CGCARGARATC CGCARGARATC CGCARGARATC	GATGAATGA  V1160  V1160  CAAGGAGTTG  CAAGGAGTTG  ~1170  V1270  CAACCCTGCTI  CAACCCTGCTI  CAACCAGATTGG  ~1280  V1380  GGAAGAAGAGAGGGA GGA GGA GGA GGA GGA	ACACCACGT  v1170  v1170  strcaggtagg strcaggtagg strcaggtagg 1180  v1280  strtaggttag strtaggttag 11290  v1390  cttgataggag  cttgatagga	CAGCTTTTCTG  v1180  v1180  cAATGATGAGA cAATGA GAGA cAATGACGAGA  ^1190  v1290  ACACATCTCAA ACACATCTCAA ACACATCTCAA  ACACATCTCAA  1300  v1400  JACATCTTGTCC  JACATCTTCTC  JACATCTTGTCC  JACATCTTCTCC  JACATCTTCTCT  JACATCTTCTCC  JACATCTCTCC  JACATCTTCTCC  JACATCT  JACATCTTCTCC  JACATCT  JAC	GGAGAAGAGG  1090  **1190  CCCTTTTATCT  CCCTT T TCT  CCCTTTGTCT  **1200  **1300  CCCCCTCTGCAA  CCCCCTCTCAA  CCCCTCTCAA  CCCCCTCTCAA  CCCCCTCTCAA  CCCCCTCTCAA  CCCCCTCTCAA  CCCCTCTCAA  CCCCCTCTCAA  CC	V1200 FGC FGC FGC V1310 LAG
TTCAA CAACC GT TTCAAGCAACCACT 00 ^1000     v1100     sGACTTAGTGCAT AGGACTTAG GCAT AGGACTTAG GCAT AGGACTTAG GCAT CON ^1110     v1210 TGCCAGTGCTTTG CCCAGTGCTTTG CCCAGTGCTTTG TGCCAGTACTTT TGTCACAGA TTATTGT ACAGA TTA	AACCAAA TC. AACCAAAATC. AACCAAAATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. V120 CACACAAGCT. CACACAAGCT. CACACAAGCT. CACACAAGCT. TGAAGACATC. TGAAGACATC. TGAAGACATC. 1340 V1440	AC A CA CA ACGAACCACCC  ^1020  V1120  AGAACAAATTA AGAACAAATTA AGAACAAATTA ^1130  V1230  CTGCGCCCAATC CTGCGCCCAATC ^1240  V1340 AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA  V1350  V1450	Z AG AATAA CGAGCAATAAN 1030 V1130 V1130 V13AAAAACCA: V13AAAAACCA: V1240 V1240 CACAGGGCAAA CACAGGGCAAA CACAGGGCAAA CACAGGACAAA CACAGGACAAA CACAGGACAAA CACAGGACAAA CACAGGACAAA CACAGGACAAA V1350 V1360 V1460	GTGAA TCAG GGTGAAGTCAG A1040 V1140 V1140 V1160 V1250 V1250 STCTCCGCTGG STCTC GCTGG CTCTCTCGCTGG CTCTCTGCTGC A1260 V1360 CAGCAAGTAC CA CAAGTAC CAAGTAC V1370 V1470	ACCC CA CC SACCCCCAGCC  1050  V1150  CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC V1260  V1260  V1270  V1370  V1370  CCARGARAT CCCARGARAT 1380  V1480	GGATGAATGA  ^1060  v1160 CAAGGAGTTG CAAGGAGTTG 1170  v1270 CAACCCTGCTT CAACCCT	ACAACACGT  v1170  v1170  STCCAGGTAGGTAGGTAGGTAGGTAGGTAGGTAGGTAGGTA	CAGCTTTTCTG  v1180  v1180  chatgatgaga chatga gaga chatgacagaga v1290  Acachatctchai Acachtctchai Acachtctchai Acachtctchai Acachtctchai Acachtctchai Acachtctchai Acachtctchai 1300  v1400  shchtcttgtci shchtcttgtci shchtcttgtci shchtcttgtci v1410  v1510	GEAGAACAGG  1090  V1190  CCCTTTTATCT  CCCTT T TCT  CCCTTCTGCTAT  1200  V1300  CCCCTCTGCAA  CCCCTCTGCAA  CCCCTCTGCAA  CCCCTCTGCAA  CCCCTCTGCAA  CCCCTCTGCAA  CCCCCTCTGCAA  CCCCCTCTGCAA  CCCCCTCTGCAA  CCCCCTCTGCAA  CCCCCTCTGCAA  CCCCCTCTGCAA  CCCCCCTCTGCAA  CCCCCCTCTGCAA  CCCCCCTCTGCAA  CCCCCCTCTGCAA  CCCCCCTCTGCAA  CCCCCCCTCTGCAA  CCCCCCCTCTGCAA  CCCCCCCTCTGCAA  CCCCCCCTCTGCAA  CCCCCCCCCC	v1200 rigc rigc rigc rigc rigc rigc rigc rigc
TTCAR CAACC GT TTCARGCACCACT 90 ^1000     v1100     square AGGACTTAGTGCAT AGGACTTAG GCAT AGGACTTAG GCAT AGGACTTAG GCAT AGGACTTAG CAT COLOR 1110     v1210     rTGCCAGTGCTTTG F GCCAGTGCTTTG 210 ^1220     v1320 TTATTGTCACAGA TTCATTGTTACAGA TTCATTGTTACAGA TTCATTGTTACAGA TTCATTGTTACAGA 1330     v1430 AGAACAGATGGATA	AACCAAA TC. AACCAAATTC. AACCAAATTC. A110 V1110 CAGATGTAACI CAGATGTAACI CAGATGTAACI CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC TCAAGACATCATCATCAGAGCACT 17GAAGACATT 17GAAGACATT) 17GAAATGGAC V1440 TTGAAATGGAC	AC A CA CA ACGAACCACCC  ^1020  V1120  V1120  AGAACAAATTR AGAACAAATTR ^1130  CTGCGCCAATC CTGCGCCAATC CTGCGCCAATC 41340  V1340  AGGAAACAGGA	E AG AATAN CGAGCAATAN 1030 V1130 ATANANACCA: ATANANACC	GTGAA TCAG GGTGAAGTAG A1040 V1140 V1140 TGGA GTACC TGGA GTACC T150 V1250 STCTCCGCTGC STCTC GCTGC TCTCTCGCTGC A1260 V1360 CAGCAAGTAC CA CAAGTAC CA CAAGTAC CAACAAGTAC A1370 VATATGATCAG	ACCC CA CC SACCCCCAGCC  1050  V1150  V1150  CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC  1160  V1260  TGTGGGARARG CGTGGARARG CGTGGARARG CGTGGARARG CGTGGARARG  1270  V1370  GCARGARAT  1380  GTARCTTTGG	GATGAATGA  ^1060  v1160  AAGGAGTTG  AAGGAGTCG  ^1170  v1270  V1270  VACCGACGCTTC  AACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCAGGAGGCU  v1380  GGAAGAAGCA  GGAGGAGGCU  v1490  AACCGACTTTT  ACCGACTTTT	ACACCACGT ^1070 v1170 STCCAGGTAGG FTCCAGGTAGG FTCCAGGTAGG ^1180 v1280 STTTTGGCTTAI FTTTGGCTTAI FTTTGGCTTAI C1290 v1390 ACTGATGGCCA CTGATGGCCA ^1400 v1500 CTCCAARGGAG	CAGCTTTTCTG  1080  V1180  CAATGATGAGA CAATGA GAGA  CAATGACGACA  1190  V1290  ACACATCTCAA ACACATCTCAA ACACATCTCAA  1300  V1400  SACATCTTGTC SACATCTTGTC SACATCTTGTC SACATCTTGTC V1510  V1510 VAATTCTTGTGA	GGAGAAGAGG  1090  1190 CCCTTTTATCT CCCTT T TCT CCCTTCTGCAT 1200  1300 CCCCTCTGCAT CCCCTCTGCAT CCCCTCTGCAT  1310  11410 SCGAGCTGCTG CG GTGC G 1420  1420  1420  1420  1420  1420	V1200 FGC FGC FGC V1310 LAG LAG LAG V1420 LAT LAG LAG LAG V1420 LAT LAG LAG LAG V1530
TTCAR CRACC 6T TTCARGCARCACT 90 ^1000  V1100 AGGACTTAGGCAT AGGACTTAG GCAT AGGACTTAG GCAT 100 ^1110  V1210 TTGCCAGTGCTTTG TGCCAGTGCTTTTA 210 ^1220  TTTATTGTTACAGAT TTCATTGTTACAGAT 320 ^1330  V1430 AGAAGAGATGGATA GA GA T GA A'	AACCAAA TC. AACCAAAATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CACACAAGCT. CACACAAAGCT. CACACAAGCT. CACACAAAGCT. CACACAAGCT. CACACAAGCT. CACACAAGCT. CACACAAGCT. CACACAAAGCT. CACACAAGCT. CACACAAGCT. CACACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AC A CA CC ACGAACCACCC ACGAACCACCC ACGACCACACCC ACGACCAAATTA ACGAACAAATTA ACGAACAAATTA ACGACCAATC ACGCCCCAATC ACGCCCCAATC ACGCCCCAATC ACGCAACACCCCAACC ACGCAAACACGA ACGGAAACAGGA ACGGAAACAGGAACAGAACAGAGAACAGAACAGAACAGAACAGAACAGAACAGAACAGAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAAACAGAAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAAAAA	E AG AATAA CGAGCAATAAA 1030 V1130 ATAAAAACCA: ATAACGGCAAAA ATAACGGCAAAA ATAACGCAAGTI AGAACCGAGTI AGAACCGAGTI AGAACCGAGTI AGAACCGAGTI AGAACCGAGTI AGAACGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	GTGAA TCAG GGTGAAGTCAG  1040  V1140  V1140  VGGAACTACCC VGGAGCTACCT  1150  V1250  FTCTCCGCTGG STCTC GCTGC  V1260  V1360  V1360  V1360  CAACAAGTAC CA CAAGTAC CAACAAGTAC  V1470  V1470  VATATGATCAGCAAGTAC  VATATGATCAGCAACTAC	ACCC CA CC SACCCCCAGCC  1050  V1150  V1150  ANAGGTCTTC ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTCC  ANAGGTCTTCC  ANAGGTCTTCC  GCAAGAAAT  1380  V1480  GTAACTTTCC  GTAACTTTCC	GATGAATGA  ^1060  v1160  CAAGGAGTTG CAAGGAGTCG ^1170  v1270  CAACCCTGCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCT	ACACCACGT  v1170  stccagatag ftccagatag ftccagatag ftccagatag ftcagatag ftcagatag fttagatag ftta	CAGCTTTTCTG  V1180  V1180  CAATGATGAGA CAATGA GAGA CAATGACGAGA A1190  V1290  ACACATCTCAA ACACATCTCAAA ACACATCTCAAA ACACATCTCAAAAAAATCTCATGAAAAATCCATGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAATCATGAGAAAAAATCATGAGAAAAAAAA	GENGANGAGG  v1190  v1190  CCCTTTTATCT  CCCTT T TCT  CCCTTCTGCAT  v1200  v1300  CCCCTCTGCAN  cCCCTCTGCAN  v1410  SGGASCTGCTG  CCGGGCTGCCG  cCGGGCTGCCG  v1520  v1520  v1520  AATTGAACAAA	V1200 FGC FGC V1310 LAG LAG LAG LAG LAG LAC V1530 LAA LAA LAA
TTCAR CARCC GT TTCARGCARCCACT 90	AACCAAA TC. AACCAAATC. AACCAAATTC. A1010 V1110 CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. A1120 V1220 CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC TCAAGACATT A130 V1330 TGAAGACATT A140 V1440 TTGAAAATGGAC TTGAAAATGGAC TTGAAAATGGAC	AC A CA CC ACGACCACCA ACGAACCACCC ACGACCACACCAC	E AG AATAA CGAGCAATAAA 1030 V1130 ATAAAAACCA: ATAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAACCA: ATAAAAAACCA: ATAAAAAACCA: ATAAAAAAACCA: ATAAAAAACCA: ATAAAAAACCA: ATAAAAAACCA: ATAAAAAACCA: ATAAAAAACCA: ATAAAAAACCA: ATAAAAAACCA: ATAAAAAACCA: ATAAAAAAACCA: ATAAAAAAAAAA	GTGAA TCAG GGTGAAGTCAG  1040  V1140  V1140  VGGAACTACCC VGGAGCTACCT  1150  V1250  FTCTCCGCTGG STCTC GCTGC  V1260  V1360  V1360  V1360  CAACAAGTAC CA CAAGTAC CAACAAGTAC  V1470  V1470  VATATGATCAGCAAGTAC  VATATGATCAGCAACTAC	ACCC CA CC SACCCCCAGCC  1050  V1150  CAMAGGTCTTC CAMAGGTCTTC CAMAGGTCTTC CAMAGGTCTTC CAMAGGTCTTC CAMAGGTCTTC CAMAGGTCTTC CAMAGGTCTTC V1260  V1260  V1270  V1370  CCCAMGANATT C	GATGAATGA  ^1060  v1160  CAAGGAGTTG CAAGGAGTCG ^1170  v1270  CAACCCTGCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCT	ACACCACGT  v1170  stccagatag ftccagatag ftccagatag ftccagatag ftcagatag ftcagatag fttagattag fttagattag fttagattag fttagattag fttagatag fttagatagatag fttagatag fttagatag fttagatag fttagatag fttagatag fttagatagatag fttagatag fttagatagatag fttagatag ftta	CAGCTTTTCTG  v1180  v1180  chatgatgaga chatga Gaga v1290  ACACATCTCAN ACACATCTCAN ACACATCTCAN CACATCTCAN CACATCTCAN CACATCTCAN CACATCTCAN CACATCTCAN CACATCTGTC CACATCCTGTC CACATCCTGTC CACATCCTGTC ACATCCTGTC ACATCCTGTC ACATCCTGTC ACATCCTGTCAN ACATCCTGTGAAATTCCTGAGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATACCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAAATCCTGGAAAAAATCCTGGAAAAAATCCTGGAAAAAATCCTGGAAAAAAAA	GENGANGAGG  v1190  v1190  CCCTTTTATCT CCCTT T TCT CCCTTCTGCAT  v1200  v1300  CCCCTCTGCAN  cCCCTCTGCAN  v1410  SGGASCTGCTG CCGGGCTGCGGG  v1420  v1520  v1520  v1520  AATTGAACAAA	V1200 V1200 V16C V16C V1310 LAG LAG LAG LAG LAG LAC V1530 LAA LAA
TTCAR CARCE GT TTCARGCARCCACT OO 1100 VI100 SGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT TATGTACAGA TTATTGTACAGA TTATGTACAGA TTATTGTACAGA TTATTGTACAGA TTATTGTACAGA TTATGTACAGA	AACCAAA TC. AACCAAAATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CACACAAGCT. CACACAAAGCT. CACACAAGCT. CACACAAAGCT. CACACAAGCT. CACACAAGCT. CACACAAGCT. CACACAAGCT. CACACAAAGCT. CACACAAGCT. CACACAAGCT. CACACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AC A CA CC ACGAACCACCC ACGAACCACCC ACGACCACACCC ACGACCAAATTA ACGAACAAATTA ACGAACAAATTA ACGACCAATC ACGCCCCAATC ACGCCCCAATC ACGCCCCAATC ACGCAACACCCCAACC ACGCAAACACGA ACGGAAACAGGA ACGGAAACAGGAACAGAACAGAGAACAGAACAGAACAGAACAGAACAGAACAGAACAGAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAAACAGAAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAACAGAAAAAA	E AG AATAA CGAGCAATAAA 1030 V1130 ATAAAAACCA: ATAACGGCAAAA ATAACGGCAAAA ATAACGCAAGTI AGAACCGAGTI AGAACCGAGTI AGAACCGAGTI AGAACCGAGTI AGAACCGAGTI AGAACGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	GTGAA TCAG GGTGAAGTCAG  1040  V1140  V1140  VGGAACTACCC VGGAGCTACCT  1150  V1250  FTCTCCGCTGG STCTC GCTGC  V1260  V1360  V1360  V1360  CAACAAGTAC CA CAAGTAC CAACAAGTAC  V1470  V1470  VATATGATCAGCAAGTAC  VATATGATCAGCAACTAC	ACCC CA CC SACCCCCAGCC  1050  V1150  V1150  ANAGGTCTTC ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTC  ANAGGTCTTCC  ANAGGTCTTCC  ANAGGTCTTCC  GCAAGAAAT  1380  V1480  GTAACTTTCC  GTAACTTTCC	GATGAATGA  ^1060  v1160  CAAGGAGTTG CAAGGAGTCG ^1170  v1270  CAACCCTGCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCTT CAACCCTCT	ACACCACGT  v1170  stccagatag ftccagatag ftccagatag ftccagatag ftcagatag ftcagatag fttagattag fttagattag fttagattag fttagattag fttagatag fttagatagatag fttagatag fttagatag fttagatag fttagatag fttagatag fttagatagatag fttagatag fttagatagatag fttagatag ftta	CAGCTTTTCTG  v1180  v1180  chatgatgaga chatga Gaga v1290  ACACATCTCAN ACACATCTCAN ACACATCTCAN CACATCTCAN CACATCTCAN CACATCTCAN CACATCTCAN CACATCTCAN CACATCTGTC CACATCCTGTC CACATCCTGTC CACATCCTGTC ACATCCTGTC ACATCCTGTC ACATCCTGTC ACATCCTGTCAN ACATCCTGTGAAATTCCTGAGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAATTCCTGGAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATACCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAATTCCTGGAAAAAATCCTGGAAAAAATCCTGGAAAAAATCCTGGAAAAAATCCTGGAAAAAAAA	GENGANGAGG  v1190  v1190  CCCTTTTATCT CCCTT T TCT CCCTTCTGCAT  v1200  v1300  CCCCTCTGCAN  cCCCTCTGCAN  v1410  SGGASCTGCTG CCGGGCTGCGGG  v1420  v1520  v1520  v1520  AATTGAACAAA	V1200 V1200 V16C V16C V1310 V1310 V1420 V1420 VAAT V1530 VAAA
TTCAR CAACC GT TTCARGCARCCACT 90 ^1000 V1100 AGGACTTAGGCATT AGGACTTAGGCCAT 100 ^1110 V1210 TIGCCAGTGCTTTG TGCCAGTGCTTTG TGCCAGTGCTTTG TGCCAGTGCTTTA TGTGCAGTGCTTTA TGTGCAGTGCTTTA TGTGCAGTGCTTTA TGTGCAGTGCTTTA TGTGCAGTGCTTTA TGTGCAGTGCTTTA TGTGCAGTGCTTTA TTATTGTTACAGGA TTATTGTTACAGGA TTCATTGTTACAGGA TTCATTGTTACAGGA TGAGAGATGGATA GA GA T GA A GAGGAAGTAGACA	AACCAAA TC. AACCAAATC. AACCAAATTC. A1010 V1110 CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. A1120 V1220 CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC TCAAGACATT A130 V1330 TGAAGACATT A140 V1440 TTGAAAATGGAC TTGAAAATGGAC TTGAAAATGGAC	AC A CA CC ACGACCACCA ACGAACCACCC ACGACCACACCAC	E AG AATAN CGAGCAATAN 1030 V1130 ATANANACCA: ATANANACC	GTGAA TCAG GGTGAAGTCAG A1040 V1140 V1140 V1140 V1150 GTCTCCGCTGG STCTCCGCTGG FTCTCTCGCTGG A1260 V1360 CAGCANGTAC CA CAAGTAC CAAGTAC CAAGTAC CAAGTAC A1370 V1470 V1470 VATATGATCAG VATATGATCAG VATATGATCAG AVATATGATCAG AVATATGATCAGAG AVATATGATCAG AVATCAGATCAG AVATCAGATCAG AVATATGATCAG AVATCAGATCAG AVATCAGATCAGATCAG AVATCAGATCAGATCAGATCAG AVATCAGATCAGATCAGATCAGATCAGATCAGATCAGATC	ACCC CA CC SACCCCCAGCC  1050  V1150  CANAGGTCTTC CANAGGTCTTC CANAGGTCTTC CANAGGTCTTC CANAGGTCTTC CANAGGTCTTC CANAGGTCTTC CANAGGTCTTC CANAGGTCTTC CANAGANAT GCANGANACT 1380  V1480 GTANCTTTCG GTANCTTTCG GTANCTTTCG GTANCTTTCG GTANCTTTCG GTANCTTTCG CANAGANCTTTCG GTANCTTTCG CANAGANCTTTCG GTANCTTTCG CANAGANCTTTCG GTANCTTTCG CANAGANCTTTCG CANAGANCTTTCG CANACTTTCG CANACTTCG	GATGAATGA  1060  V1160 CAAGGAGTTG CAAGGAGTCG  1170  V1270 CAACCCTGCTT CAACCCTTT CAACCCTGCTT CAACCCTGCTCT CAACCCTTC CAACCCTTC CAACCCTTC CAACCCTTC CAACCCTTC CAACCCTGCCTT CAACCCTTC	ACAACACGT  v1170  stccaggtag  ftccaggtag  ftccaggtag  ftcaggtag  v1280  v1280  stttaggttag  tttaggttai  r1290  v1390  ACTGATGGC  ACTGATGGCC  1400  v1500  CCCCAAGAGA  CCCCAAGAGA  ACCCCAAGAGAC  1510	V1180  V1180  CAATGATGAGA CAATGA GAGA CAATGA GAGA A1190  V1290 ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAC ACACATCTCTGC GACATCTCTGTC GACATCTCTGTC ACATCTCTGTC ACATCTCTGTCAAAAATTTCCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAATTGCTAGAAAATTGCTAGAAATTGCTAGAAATTGCTAGAAAAATTGCTAGAAAATTGCTAGAAAATTGCTAGAAAATTGCTAGAAAATTGCTAGAAAATTGCTAGAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAAATTGCTAGAAAAATTGCTAGAAAAATTGCTAGAAAAAATTGCTAGAAAAAATTGCTAGAAAAAATTGCTAGAAAAAATTGCTAGAAAAAATTGCTAGAAAAAAAA	GEAGAAGAGG  1090  1190 CCCTTTTATCT CCCTT T TCT CCCTTCTGCAT  1200  V1300 CCCCTCTGCAA  CCCCTCTGCAA  1310  V1410  V1410  V1420  V1520  AATTGAACAAA  AAACAGAATTAA  ^1530	V1200 TGC TGC TGC TGC TGC V1310 AAG AAG AAG AAG V1420 AAT AAA AAA AAA AAA AAA
TTCAR CAACC GT TTCARGCACCACT 90	AACCAAA TC. AACCAAATTC. AACCAAAATTC. A100 V1110 V1110 V1110 CAGATGTTAACI CAGATGTTAACI CAGATGTTAACI CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC A1340 V1440 TTGAAGACATTJ ATGAAGTTGAATGGAC TTGAAATTGGAC TTGAAAATTGGAC A1450 V1550	AC A CA CC ACGAACCACCC  ^1020  v1120  v1120 AGAACAAATTR AGAACAAATTR ^1130  v1230 CTGCGCCAATC CTGCGCCAATC CTGCGCCAATC ^1240  v1340 AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA CAGGAACAGGA CAGGAACAGGAACAGGAACAGGA CAGGAACAGGAACAGGA CAGGAACAGAACAGGAACAGAACAGAACAGAACAGAACAGAACAGAACAGAACAGAACAGAA	E AG AATAN CGAGGAATAN 1030 V1130 ATANANACCA: ATANACCA: ATANACC	GTGAA TCAM GGTGAAGTAM A1040 V1140 V1140 TGGA GTACC TGGA GTACC TGGAGCTACCT A1150 V1250 STCTCCGCTGC STCTC GCTGC STCTC GCTGC A1260 V1360 CAGCAAGTAC CA CAAGTAC CA CAAGTAC CA CAAGTAC A1370 V1470 VATATGATCAG VATATGATCAG VATATGATCAG VATATGATCAG VATATGATCAG VATATGATCAG VATATGATCAG VATAGATCAG VATAGATCAG VATAGATCAG VATATGATCAG VATAGATCAG VATAGATCAGATCAG VATAGATCAG VATAGATCAGATCAG VATAGATCAGATCAG VATAGATCAGATCAG VATAGATCAGATCAG VATAGATCAGATCAGATCAGATCAGATCAGATCAGATCAG	ACCC CA CC SACCCCAGCC 1050 V1150 CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGARAR CCGTGGARARG CCGTGGARARG CGARGARAT CGCARGARAT CGCARGARAT CARAGARAT CGCARGARAT CGCAR	GATGAATGA  ^1060  v1160  CAAGGAGTTG CAAGGAGTTG CAAGGAGTCG ^1170  v1270  LAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCAACCAACCAACCAACCAACCAACCAACCTTC CAACCAAC	ACACCACGT  v1170  STCCAGGTAGG  FTCCAGGTAGG  FTCCAGGTAGG  1180  v1280  STTTGGCTTAL  FTTTGGCTTAL  FTTTGGCTTAL  CTGATGGC  v1390  ACTGATGGC  ACTGATGGCC  ACTGATGCC  ACTGATGGCC  ACTGATGGCC  ACTGATGCCC  ACTGATGCC  ACTGATGCC  ACTGATGCC  ACTGA	CAGCTTTTCTG  v1180  CAATGATGAGAA CAATGAGGAGA  clastGAGGAGA  clastCTCAAA ACACATCTCAAA ACACATCTCAAA ACACATCTCAAA ACACATCTCAAA ACACATCTCAAA CACATCTCAAA CACATCTCAAA CACATCTCAAA CACATCTCAAA ACACATCTCAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAATTCCTAGAAAAATTCCTAGAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAATTCCTAGAAAATTCCTAGAAATTCCTAGAAATTCCTAGAAATTCCTAGAAATTCCTAGAAATTCCTAGAAATTCAAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAAATTCATAGAAATTCATAGAAATTCATAGAAATTCATAGAAATTCAAAAATTCATAGAAAATTCATAGAAAATTCATAGAAAATTCATAGAAAATTCAAAAAAATTCAAAAAAATTCAAAAAATAAAAATTCAAAAAA	GGAGAAGAGG  *1190  *1190  CCCTTTTATCT CCCTT T TCTCT CCCTTCTGCAF  *1200  *1300  CCCCTCTGCAF CCCCTCTGCAF  *1310  *1410  SCGASCTGCGG CCGGGGGGGGG  *1420  *1520  *1520  **ATTGAACAAF  **AACAGAATTAA  **1530  **1630	V1200 IGC IGC IGC IGC V1310 IAG IAG IAG IAG IAC V1530 IAA IAA
TTCAR CAACC GT TTCARGCACCACC 90 1000 V1100 AGGACTTAGTGCAT AGGACTTAGTGCAT AGGACTTAGTGCAT AGGACTTAGTGCAT AGGACTTAGTGCAT AGGACTTAGTGCAT AGGACTTAGTGCAT AGGACTTAGTGCAT ATGT ACAGA TTATTGTACAGA TTATTGTACAGA TTATTGTACAGA TTATTGTACAGA AGAAGAGAAG	AACCAAA TC. AACCAAATTC. AACCAAATTC. AACCAAATTC. A1100 V1110 CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. V1220 CACACAGAGCTC CACACAGGCTC CACACAGGCTC A1230 V1330 V1330 V1340 V1440 TTGAAGACATTJ A1340 TTGAAGACTTTAACATGGAC TTGAAGACTTTAACATGGAC TTGAAGACTTGACATGGAC TTGAAGACTTGACATGGAC TTGAAGACTTGACTT	AC AC CA ACGAACCACCC  ^1020  V1120  V1120 AGAACAAATTA AGAACAAATTA AGAACAAATTA AGAACAAATTA CTGCGCCAATC CTGCGCCAATC ^1240  V1340 AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA CAGGAACAGGA CAGGAAACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAAACAGGA CAGGAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAACAGGAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGAACAGGA CAGGAAACAGGAACAGGA CAGGAAACAGGAAACAGGA CAGGAAACAGGAAACAGGA CAGGAAACAGGAAACAGGAAACAGGAACAGGAAACAGGAAACAGGAAACAGGAAACAGGAAAAAA	E AG AATAM CGAGCAATAM 1030 V1130 V1130 V1130 V1130 V13AAAACCA: ATAAAAACCA: ATAAAACCAACACAACCAACCCAAC	GTGAA TCAG GGTGAAGTAG  **1040  **1140  **1140  **1150  **1250  **1250  **1250  **1250  **1260  **1360  **1360  **1360  **1370  **1470	ACCC CA CC SACCCCAGCC  1050  V1150  CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC V1260  TGTGGARARG CATCTARAGGARART CGCARGARAT  1380  V1480  GGTARCTTTCG GGTARCTTTCG GGTARCTTTCG GGTARCTTTCG GGTARCTTTCG TARAGGARA  V1590  TTARATAGCAC  TTARATAGCAC	GATGAATGA  ^1060  V1160  CAAGGAGTTG CAAGGAGTTG CAAGGAGTCG ^1170  V1270  LAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCAACC	ACAACACGT  ^1070  v1170  STCCAGGTAG  FTCCAGGTAG  FTCCAGGTAG  ^1180  v1280  FTTTGGCTTAI  FTTTGGCTTAI  FTTTGGCTTAI  CTGATGGCC  \(^1290  \)  CTGATGGCC  \(^1400 \)  v1500  CCCCAAGAGGI  CCCCAAGAGGI  CCCCAAGAGGI  \(^1510 \)  v1610  v1610  CCTTTTTTAGAT	CAGCTTTTCTG  1080  V1180  CAATGATGAGA CAATGACGAGA  1190  V1290  ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAC 1300  V1400  SACATCTTGC SACATCTGTC A1410  V1510  VAATTCCTAGAI AAATTCCTAGAI AAATTCCTAGAI AAATTCTTGAI ACACTTTTTGAI CTCACTTCAC CTCACTTCACA CTCACTTCACA CTCACTTTTTGAI CTCACTTTTTTGAI CTCACTTTTTGAI CTCACTTTTTGAI CTCACTTTTTTGAI CTCACTTTTTTGAI CTCACTTTTTTGAI CTCACTTTTTTGAI CTCACTTTTTTTTTAI CTCACTTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTTT	GGAGAAGAGG  1090  1190  CCCTTTTATCT CCCTT T TCT CCCTTTTATCT CCCTTCTGCAM  1310  V1410  GGGAGCTGCGA  1320  V1520  ANTGGAGAACAAA AA GAA AA AACAGAATTAA  1530  V1630  CCCTATATATCT CCTATATATCT	V1200 FGC FGC FGC V1310 AAG AAG V1420 AAT AAA AAA AAA AAA AAA AAA AAA AAA AA
TTCAA CAACC GT TTCAAGCAACCACT OO 1000 VI100 AGGACTTAGTGCATT AGGACTTAGTGCATT AGGACTTAGTGCATT AGGACTTAGTGCATT AGGACTTAGTGCATT ATTGT ACAGA TTATTGT ACAGA TTATTG	AACCAAA TC. AACCAAATTC. AACCAAATTC. AACCAAATTC. A1100 V1110 CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. V1220 CACACAGAGCTC CACACAGGCTC CACACAGGCTC A1230 V1330 V1330 V1340 V1440 TTGAAGACATTJ A1340 TTGAAGACTTTAACATGGAC TTGAAGACTTTAACATGGAC TTGAAGACTTGACATGGAC TTGAAGACTTGACATGGAC TTGAAGACTTGACTT	AC AC CA ACGAACCACCC  ^1020  V1120  V1120 AGAACAAATTA AGAACAAATTA AGAACAAATTA AGAACAAATTA CTGCGCCAATC CTGCGCCAATC ^1240  V1340 AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA CAGGAACAGGA CAGGAAACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAAACAGGA CAGGAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAACAGGAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGAACAGGA CAGGAAACAGGAACAGGA CAGGAAACAGGAAACAGGA CAGGAAACAGGAAACAGGA CAGGAAACAGGAAACAGGAAACAGGAACAGGAAACAGGAAACAGGAAACAGGAAACAGGAAAAAA	E AG AATAM CGAGCAATAM 1030 V1130 V1130 V1130 V1130 V13AAAACCA: ATAAAAACCA: ATAAAACCAACACAACCAACCCAAC	GTGAA TCAG GGTGAAGTAG  **1040  **1140  **1140  **1150  **1250  **1250  **1250  **1250  **1260  **1360  **1360  **1360  **1370  **1470	ACCC CA CC SACCCCAGCC  1050  V1150  CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC V1260  TGTGGARARG CATCTARAGGARART CGCARGARAT  1380  V1480  GGTARCTTTCG GGTARCTTTCG GGTARCTTTCG GGTARCTTTCG GGTARCTTTCG TARAGGARA  V1590  TTARATAGCAC  TTARATAGCAC	GATGAATGA  ^1060  V1160  CAAGGAGTTG CAAGGAGTTG CAAGGAGTCG ^1170  V1270  LAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCTGCTT CAACCCAACC	ACAACACGT  ^1070  v1170  STCCAGGTAG  FTCCAGGTAG  FTCCAGGTAG  ^1180  v1280  FTTTGGCTTAI  FTTTGGCTTAI  FTTTGGCTTAI  CTGATGGCC  \(^1290  \)  CTGATGGCC  \(^1400 \)  v1500  CCCCAAGAGGI  CCCCAAGAGGI  CCCCAAGAGGI  \(^1510 \)  v1610  v1610  CCTTTTTTAGAT	CAGCTTTTCTG  1080  V1180  CAATGATGAGA CAATGACGAGA  1190  V1290  ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAC 1300  V1400  SACATCTTGC SACATCTGTC A1410  V1510  VAATTCCTAGAI AAATTCCTAGAI AAATTCCTAGAI AAATTCTTGAI ACACTTTTTGAI CTCACTTCAC CTCACTTCACA CTCACTTCACA CTCACTTTTTGAI CTCACTTTTTTGAI CTCACTTTTTGAI CTCACTTTTTGAI CTCACTTTTTTGAI CTCACTTTTTTGAI CTCACTTTTTTGAI CTCACTTTTTTGAI CTCACTTTTTTTTTAI CTCACTTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTTAI CTCACTTTTTTTTAI CTCACTTTTTTTTTT	GGAGAAGAGG  1090  1190  CCCTTTTATCT CCCTT T TCT CCCTTTTATCT CCCTTCTGCAM  1310  V1410  GGGAGCTGCGA  1320  V1520  ANTGGAGAACAAA AA GAA AA AACAGAATTAA  1530  V1630  CCCTATATATCT CCTATATATCT	V1200 FGC FGC FGC V1310 AAG AAG V1420 AAT AAA AAA AAA AAA AAA AAA AAA AAA AA
TTCAR CAACC GT TTCARGCAACCAGT 90	AACCAAA TC. AACCAAATTC. AACCAAAATTC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTT CACACAAGCT CACACAAAGCT CACACAAAGCT CACACAAAGCT CACACAAAGCT CACACAAAACAAA	AC A CA CA ACGAACCACCC  ^1020  V1120  V1120  ACANACANATTR ACANACANATTR ^1130  CTGCGCCANTC CTGCGCCANTC CTGCGCCANTC ^1240  V1340 AGGAANACAGGA AGGAANACAGGA AGGAANACAGGA AGGAANACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAACAGGA CAGGAACAGGA AGGAANACAGGA AGGAAACAGGAA AGGAAACAGGAA AGGAAACAGGAA AGGAAACAGGAA AGGAAACAGGAA AGGAAACAGGAAACAGGAA AGGAAACAGGAAACAGGAAACAGGAAAAAAAA	E AG AATAM CGAGCAATAM 1030 V1130 V1130 V1130 V1140 V1240 V1240 V1240 CACAGGCCAAC ACAGGCCAAC ACCAGAGCAC ACCAGACAC ACCAGAGCAC ACCAGAGC	GTGAA TCAM GGTGAAGTAM A1040 V1140 V1140 TGGA CTACC TGGA CTACC TGGA CTACC T150 V1250 STCTCCGCTGC TCTCCGCTGC TCTC GCTGC TCTCTCGCTGC A1260 V1360 CCACAGAGTAC CACAAGTAC CACAAGTAC CACAAGTAC CACAAGTAC CACAAGTAC CACAAGTAC TATO LATATGATCAG A1480 V1580 CATAGAGCTTT CATAG—CTTT CATAG—CTTT CATAG—CTTT CATAG—CTTT	ACCC CA CC SACCCCAGCC 1050 V1150 CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGARARG CGCARARGARAT CGCARGARAT CGCARGARAT CGCARGARAT CGCARGARAT CGCARGARAT CGCARGARAT CGCARGARAT CGCARGARAT CGCARGARAT CARAGGARAT CGCARGARAT CTARATAGCAC TTARATAGCAC TTARATAGCAC TTARATAGCAC TTARATAGCAC	GATGAATGA  ^1060  v1160  CAAGGAGTTG CAAGGAGTTG CAAGGAGTCG ^1170  v1270  UA270 UA270 UA270 UA380  GGAAGAGAGC GGAAGAGAGC CAGGAGAGGC CAGGAGGAGGC CAGGAGGAGGAGGC CAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	ACAACACGT  ^1070  v1170  STCCAGGTAG  FTCCAGGTAG  FTCCAGGTAG  ^1180  v1280  FTTTGGCTTAI  FTTTGGCTTAI  FTTTGGCTTAI  CTGATGGCC  ^1400  v1500  CCCCAAGAGGA  CCCCAAGAGGA  CCCCAAGAGCA  ^1510  V1610  CTTTTTTAGAT  CCTTTTTAGAT	CAGCTTTTCTG  1080  V1180  CAATGATGAGA CAATGA GAGA  CAATGACGACA  1190  V1290  ACACATCTCAA ACACTCTGCA ACACTCTGCA ACACTCTGCAA ACACTCTAGAA ACACTCTAGAA ACACTCTAGAA ACACTCTTTGAA ACACTCTTTGAA ACACTCTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTTTGAA ACACTCTTTTTTGAA ACACTCTTTTTTGAA ACACTCTTTTTTGAA ACACTCTTTTTTTTTT	GGAGAAGAGG  1090  1190  CCCTTTTATCT CCCTT T TCT CCCTTTTATCT CCCTT T TCT CCCTTCTGCAM  1300  CCCCTCTGCAM  1310  v1410  SCGASCTGCTG  1420  v1520  ANTIGAACANA AN GAA AN ANCAGAATTAN  1530  v1630  r1630  r1630  r1631  GGTATATATCT GGTATATATCT	V1200 FGC FGC FGC V1310 VAG
TTCAR CAACC GT TTCARGCARCACCACC 90	AACCAAA TC. AACCAAAATC. AACCAAAATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CACACAAGCT. CACACAAAGCT. CACACAAGCT. CACACAAAGCT. CACACAAAGCT. CACACAAAAACAAAAAAAAAAAAAAAAAAAAAAAAA	AC AC CA ACGAACCACCC  ^1020  V1120  AGAACAAATTA AGAACAAATTA ACGAACAAATTA ^1130  V1230  CTGCGGCCAATC CTGCGCCCAATC ^1240 V1340 AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA CAGGAAACAGGA AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA CAGTGGAGATG CAGTGGAGATG AGGTGGAGATG AGGTGAGATG AGGTGAGATG AGGTGGAGATG AGGTGAGAGATG AGGTGGAGATG AGGTGAGAGATG AGGTGAGAGTG AGGTGAGAGAGA	E AG AATAM CGAGCAATAM 1030 V1130 ATAMAMACCA: ATAMAMACC	GTGAA TCAM GGTGAAGTAM A1040 V1140 V1140 V1140 TGGA GTACC TGGA GTACC TGGAGCTACCT A1150 V1250 STCTCCGCTGC STCTC GCTGC STCTC GCTGC A1260 V1360 CAGCAAGTAC CA CAAGTAC CA CAAGTAC CAACAAGTAC A1370 V1470 LATATGATCAG VATATGATCAG VATATGATCAG CATATGATCAG CATATGATCAGTAG CATATGATCAGTAGAGCTTT CATAGAGCTTT CATAGACCTTT CATAGACCTT CATAGACCTT CATAGACCTT CATAGACCTT CATAGACCTT CATAGACCTT CATAGACCTT CATAGACCT	ACCC CA CC SACCCCAGCC 1050 V1150 V1150 CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGAAAA CCGTGGARAAG CCGTGGARAAG CCGTGARAAAA TGCARGARAAT CARAGAAAT CARAGAACT CARAGAAAT CARAGAACT CARAGAAAT CARAGAACT CARAGAACT CARAGAAAT CARAGAAAT CARAGAACT CARAGAAAT CARAG	CATCACTACA  CALCALLA  CALC	ACACCACGT  ^1070  v1170  STCCAGGTAGG  FTCCAGGTAGG  FTCCAGGTAGG  ^1180  v1280  STTTGGCTTAL  FTTTGGCTTAL  FTTTGGCTTAL  CTGATGGC  ^1400  v1500  CCCCAAGAGGI  CCCCAAGAGGI  CCCCAAGAGGI  V1510  V1510  CCTTTTTAGAT  CCTTTTTTAGAT  CCTTTTTAGAT  CCTTTTAGAT  CCTTTTTAGAT  CCTTTTTAGAT  CCTTTTTAGAT  CCTTTTTAGAT  CCTTTT	CAGCTTTTCTG  1080  V1180  CAATGATGAGA CAATGA GAGA  CAATGACGACA  1190  V1290  ACACATCTCAA ACACTCTGCA ACACTCTGCA ACACTCTGCAA ACACTCTAGAA ACACTCTAGAA ACACTCTAGAA ACACTCTTTGAA ACACTCTTTGAA ACACTCTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTTGAA ACACTCTTTTTGAA ACACTCTTTTTTTGAA ACACTCTTTTTTGAA ACACTCTTTTTTGAA ACACTCTTTTTTGAA ACACTCTTTTTTTTTT	GGAGAAGAGG  1090  1190  CCCTTTTATCT CCCTT T TCT CCCTTTTATCT 1200  1300  CCCCTCTGCAN  1310  1410  SCGASCTGCTG  1420  1520  ANTIGAACANA ANTI	V1200 FGC FGC FGC FGC V1310 V1310 V1310 V1420 V1420 V1530 V1530 V1540 V1
TTCAR CARCE GT TTCARGCARCACAC 90	AACCAAA TC. AACCAAAATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CACACAAGCT. CACACAAAGCT. CACACAAGCT. CACACAAAGCT. CACACAAAGCT. CACACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AC AC CA ACGAACCACCC  ^1020  V1120  V1120 AGAACANATTA AGAACANATTA AGAACANATTA AGAACANATTA CTGCGCCANTC CTGCGCCANTC ^1240  V1340 AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA CAGTGGAGATG CAGTGGAGATG -1460  V1550 V1560 V1560 V1560 V1560 V1570 V1670	E AG AATAR CGAGCAATAM 1030 V1130 ATARARACCA: ATARARACC	GTGAA TCAG GGTGAAGTCAG  **1040  **1140  **1140  **1150  **1250  **1250  **1250  **1250  **1250  **1260  **1360  **1360  **CAGCAAGTAC CA CAAGTAC CCAACAAGTAC  **1370  **1470  *	ACCC CA CC SACCCCCAGCC  1050  V1150  CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGARARA CT CARGARARA CT CARAGARA CT CA	GATGAATGA  ^1060  V1160  CAAGGAGTTG  CAAGGAGTTG  ANGGAGTTG  ^1170  V1270  CAACCTGCTT  CAACCCTGCTT  CAACCCTGCTT  CAACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCTGCTT  AACCCAAGGCT  AACCCAACTTT  CACCCAACTTT  CACCCAATGCT  TAACCAATGCT  TAACCCAATGCT  TAACCCAATGCT  AACCCAATGCT  TAACCCAATGCT  TAACCCAATGCT  TAACCCAATGCT  AACCCAATGCT  AACCCAATGCT	ACAACACGT  ^1070  v1170  FTCCAGGTAG  FTCCAGGTAG  FTCCAGGTAG  ^1180  v1280  v1280  rTTTGGCTTAL  FTTTGGCTTAL  FTTTGGCTTAL  CACTGATGGCC  ^1400  v1500  CCCCAAGAGGI  CCCCAAGAGGI  CCCCAAGAGGI  CCCCAAGAGGI  CCCCAAGAGGI  CCCTTTTTAGAT  CCTTTTTAGAT  CCTTTTAGAT  CCTTTTTAGAT  CCTTTTAGAT  CCTTTTTAGAT  CCTTTTAGAT  CCTTTTAGAT  CCTTTTTAGAT  CCTTTTAGAT  CCTTTTAGAT  CCTTTTTAGAT  CCTTTTTAGAT  CCTTTTAGAT  CCTTTAGAT  CCTTTTAGAT  CCTTTTAGAT  CCTTTAGAT  CCTTTAGAT  CCTTTAGAT  CCTTTAGAT  CCTTTAGAT  CCTTTAGAT  CC	CAGCTTTTCTG  1080  V1180  CAATGATGAGA CAATGACGAGA  A1190  V1290 ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCTCA  11300  V1400  SACATCTCTGTC  1410  V1510  AAATTCCTAGA AAATTCCTAGA AAATTCCTAGA AAATTCCTAGA ACACTTTTTGAT  1520  V1620  FGTATTTTTGAT  FGTATTTTTGAT  FGTATTTTTGAT  FGTATTTTTGAT  1071730  1071730	GGAGAAGAGG  1090  1190  CCCTTTTATCT CCCTT T TCT CCCTTCTTATCT 1200  1300  CCCCTCTGGAA CCCCTCTGGAA CCCCTCTGGAA CCCCTCTGGAA CCCCTCTGGAA CCCCTCTGGAA ACGAGACTGAGA AACAGAATTAAA AACAGAATTAAACT CGTATATATCT CGTATATATCT CGTATATATCT CGTATATATCT CGTATATATCT CGTATATATCT CGTATATATCT CGTATATATCT	V1200 FGC FGC FGC V1310 LAG
TTCAA CAACC GT TTCAAGCAACCACT 90	AACCAAA TC. AACCAAATTC. AACCAAAATTC. AACCAAAATTC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CACACAAGCTC CACACAACAACAACAACAACAACAACAACAACAACAAC	AC AC CA ACGACCACCA ACGAACCACCC ACGACCACCAC ACGACCACACC ACGACCACACC ACGACCACACC ACGACCACCCCACC ACGCCCACC ACGCCCATC ACGCCCATC ACGCACCCATC ACGCCCATC ACGCACCCATC ACGCACCACCC ACGCACCACCACCC ACGCACCACCACCC ACGCACCACCACCC ACGCACCACCACCC ACGCACCACCACCACCACCACCACCACCACCACCACCACC	E AG AATAB CGAGCAATAM 1030 V1130 V1130 V1130 V1130 V1140 V1240 V1240 CACAGGGCAAA CACAGGCAAA CACAGGCAAA CACAGGCAAA CACAGGACAAA CACCAGGACAA CACCAGGACAA CACCAGAGCAC CACCAGAGCAC CACCAGAGCAC CACCAGAGCAC CACAGAAAAATAGT	GTGAA TCAG GGTGAAGTCAG  **1040  **1140  **1140  **1140  **1150  **1250  **1250  **1250  **1250  **1260  **1360  **1360  **1360  **1370  **1470	EACCC CA CC SACCCCAGCC  1050  V1150  CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGARARA CARAGARARA CARAGARA CARAGARARA CARAGARARA CARAGARA CARA	GATGAATGA  ^1060  v1160  CAAGGAGTTG CAAGGAGTTG CAAGGAGTGG ^1170  v1270  UA270  UA270  UA270  UA380  GGAAGAGAGC GGA GA GCL CAGGAGGAGGCL CAGGAGGAGGCL CAGGAGGAGGCL CAGGAGGAGGCL CAGGAGGAGGCL CAGGAGGAGGCL CAGGAGGAGGCL CAGGAGGAGGAGGCL CAGGAGGAGGAGGAGGAGAGAGAGAGACAATGAATG	ACAACACGT  ^1070  v1170  FTCCAGGTAG  FTCCAGGTAG  FTCCAGGTAG  ^1180  v1280  v1280  rTTTGGCTTAL  FTTTGGCTTAL  FTTTGGCTTAL  CACTGATGGCC  ^1400  v1500  CCCCAAGAGGL  CCCCAAGAGGL  1510  v1610  CCTTTTTAGAT  CCTTTTAGAT  CCTTTTAGAT  CCTTTTTAGAT  CCTTTTTAGAT  CCTTTTAGAT  CCTTTAGAT  CCTTTTAGAT  CCTTTTAGAT  CCTTTAGAT  CCTTTTAGAT  CCTTTTAGAT	CAGCTTTTCTG  1080  V1180  CAATGATGAGA CAATGACGAGA  A1190  V1290  ACACATCTCAA ACACTCTGCC A1410  V1510  V1510  V1510  VAAATTCCTAGAA ACATTCTAGAA ACATTTTTGAAT ACACTTTTTGAAT ACACTTTTTTGAAT ACACTTTTTTTGAAT ACATTTTTTTGAAT ACACTTTTTTTTTT	GGAGAAGAGG  1090  1190  CCCTTTTATCT CCCTT T TCT CCCTT T TCT CCCTTCTGCAR CCCCTCTGCAR CCCCTCTGCAR CCCCTCTGCAR CCCCTCTGCAR CCCCTCTGCAR A1310  11410  SGGAGCTGCTG CG GCTGC GC A1420  11520  ANTIGAACANA AA GAA AA AACAGAATTAA AA GAA AA AACAGAATTAATCT GGTATATATCT GGTATATCT GGTATATATCT GGTATATATCT GGTATATCT GGTATATATCT GGTATATT GGTATATATCT GGTATATCT GGTATATC GGTATT GGTATT GGTATT GGTATT GGTATT GGTATT GGTATT GGTATT GGTATT	V1200 FGC FGC FGC V1310 V1310 V1310 V1310 V1420 V1420 V1420 V1420 V1420 V1420 V1420 V1420 V1530 V1640
TTCAA CAACC GT TTCAAGCAACCAGT 90	AACCAAA TC. AACCAAAATC. AACCAAAATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CAGAGACATC. CAGAGA	AC AC AC ACGACCACCA  ACGACCACCA  **120  **1120  **1210  AGAACAAATTA AGAACAAATTA **130  **1230  **1230  **1240  **1240  **1240  **1240  **1350  **1450  **1455  **1455  **1456  **1456  **1560  **1450	E AG AATAR CGAGCAATAM 1030 V1130 V1130 V1130 V1340 V1240 V1240 V1240 V1240 V1250 V1350 V1350 V1350 V1360 V1460 V1460 V1460 V1460 V1570 V1570 V1570 V1570 V1570 V1570 V1570 V1580 V1680 V1880 V1680 V1880 V1680 V1680 V1680 V1680 V1680 V1880 V1680 V1880 V1680 V1880 V1680 V1880 V1680 V1680 V1880	GTGAA TCAG GTGAAGTCAG GTGAAGTCAG  V1140 V1140 V1140 V1140 V1150 V1250 FTCTCCGCTGC FTCTCCGCTGC FTCTCTCGCTGC CAAGTAC CA CAAGTAC CA CAAGTAC CAAGT	ACAGCAGAG  ACAGCAGAGAGAGAGAGAGAGAAAATTCGCAAGAAATTCGGAAAAATTCGGAAAAATTCGGAACATTCGGAACTTCGAACAGAGAGAG	GATGAATGA  ^1060  v1160  CAAGGAGTTG CAAGGAGTTG CAAGGAGTTG ^1170  V1270  CAACCTGCTI CAACCTGCTI CAACCTGCTI CAACCTGCTI CAACCTGCTI CAACCTGCTI CAACCTGCTI CAACCAATGATTGAACCAATGG  V1390  V1490  CACCGACTTTC CACCTGCTTTAACCAATGG TAACCAATGG TAACCAATGG TAACCAATGG  V1710  ACCCTAAGAT  CCCTT	ACACCACGT  v1170  strccagatage frecagatage	CAGCTTTTCTG  V1180  CAATGATGAGA CAATGA GAGA CAATGACGAGA  1190  V1290  V1290  ACACATCTCAAA ACACATCTCAAAAAATTCCTAGAA ACACTCTCTGCAAAAATTCCTAGAAAAATTCCTAGAAAAATTCTTAGAAAAATTTTTGATGCTATTTTTGATGTATTTTTTGATGTATTTTTTGATGTATTTTTGATGTATTTTGATGTATTTTTGATGTATTTTTGATGTATTTTTGATGTATTTTTGATGTATTTTTGATGTATTTTGATGTATTTTTGATGTATTTTTGATGTATTTTTGATGTATTTTTGATGTATTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCCTTTTTGATGCCTTTTGATGCCTTTTGATGCCTTTTTGATGCCTTTTTGATGCCTTTTTGATGCCTTTTTGATGCCTTTTTGATGCCTTTTGATGCCTTTTGATGCCTTTTTGATGCCTTTTTGATGCCTTTTGATGCCTTTTGATGCCTTTTTGATGCCTTTTGATGCCTTTTGATGCTTTTTGATGCCTTTTGATGCCTTTTGATGCTTTTGATGCTTTTTGATGCCTTTTTGATGCCTTTTGATGCTTTTTGATGCTTTTTGATGCTTTTTGATGCTTTTTTGATGCTTTTTTTT	GGAGAAGAGG  1090  1190 CCCTTTTATCT CCCTT T TCT CCCTT T TCT CCCTTCTGCAN  1200  1300 CCCCTCTGCAN CCCTCTGCAN CCCCTCTGCAN CCCCTCTCTGCAN CCCCTCTCTGCAN CCCCTCTCTGCAN CCCCTCTCTGCAN CCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC	V1200  TGC TGC TGC TGC TGC TGC V1310 LAG LAG LAG LAG LAG V1420 LAG LAC V1530 LAG LAA LAA V1640 VAT CAT CAT CAT CAT CAT CAT CAT CAT CAT C
TTCAA CAACC GT TTCAAGCAACCAGT 90	AACCAAR TC. AACCAARATC. AACCAARATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. V120 CACACAAGCT. CACACAAGCT. CACACAAGCT. CACACAAGCT. CACACAAGCT. TGAAGACAT. A130 V1440 V1440 V1440 V150 V150 TGCATGTAAG. CCCCTGTAAG. GCCTGTAAG. GCCTGTAAG. CTCGTTAAG. CTCGTTAATTTTGAA	AC A CA CA ACGAACCACCC  ^1020  V1120  V1120  AGAACAAATTA AGAACAAATTA AGAACAAATTA ^1130  V1230  CTGCGCCAATC CTGCGCCAATC ^1240  V1340 AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA AGGAAACAGGA CAGTGGAGATG CAGTGGAGATG CAGTGGAGATG AGAACAGGA T1460  V1550 V1560 AAAAAAAATTA AAAA TGT AAAAA TGT AAAAA TGT TAAAAA TGT TCCTAGGACT TCCTAGGACT TCCTAGGACT TCCTAGGACT TCCTAGGACT	E AG AATAR CGAGCAATAM 1030 V1130 ATARARACCA: ATARACCA: ATARA	GTGAA TCAG GGTGAAGTCAG  A1040  V1140  V1140  V1140  V1150  FTCTCCGCTGC FTCTCCGCTGC A1260  V1250  V1250  FTCTCCGCTGC CAGAGTAGTAC  A1260  V1360  V1370  V1470  V1470  VATATCATCAG AVATATCATCAG  AVATATCATCAG  AVATATCATCAG  CATAGGCTTT  CATAG CTTT  CATAG CTTT  V1690  CTTTTTGTAAT  CCTTTTTAAT	ACCACCAGE  ACCACCACCAGE  ACCACCACCAC  ACCACCACCAC  ACCACCACCAC  ACCACC	GATGAATGA  1060  v1160  chaggastrg chagastrg chag	ACACCACGT  v1170  strccagatage frecagatage	CAGCTTTTCTG	GGAGARGAGG  v1090  v1190 CCCTTTTATCT CCCTT T TCT CCCTTT TCT CCCTTCTGCAN  v1300 CCCCTCTGCAN  v1310  v1410 SGGAGCTGCTG  cCCGGGCTGCTGCAN  v1410 SGGAGCTGCTG  v1420  v1520 AATTGAACARA  AACAGAATTAA  v1530 v1630 FGTATATATCT FGTATATATCT FGTATATATCT FGTATATATCT FGTATATCT FGTATCT FGGTGCAGTCT FGGTGCAGTCT	V1200 FGC FGC FGC FGC V1310 FGC V1310 FGC V1420 FGC FGC V1420 FGC FGC V1530 FGC FGC V1530 FGC FGC FGC V1530 FGC
TICAR CARCE GT TTCARGCARCCACT ON 1000 VI100 SIGNCTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT GGACTTAGTGCAT TAGTATTATTACAGA TATTATTACAGA TATTACACTGGATT TTCCACTGGGTTT TTCCACTGGGTT TTCCAC	AACCAAA TC. AACCAAAATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CACACAAGCT. CACACAAAGCT. CACACAAGCT. CACACAAAGCT. CACACAAAGCT. CACACAAAGCT. CACACAAAAACAAAAAAAAAAAAAAAAAAAAAAAAA	AC A CA CA ACGAACCACCC  ACGAACCACCC  ACGAACCACCC  ACGAACAAATTA ACGAACAAATTA ACGAACAAATTA ACGAACAAATTA ACGACAAATTA ACGACAAATTA ACGACAAATTA ACGACAACCCCATC  ACGCCCCATC  ACGCCCATC  ACGCAAACACGCA ACGAAACACGCA ACGACACCCACC	E AG AATAR CGAGCAATAM 1030  V1130  V1130  V1130  V1340  V1240  V1240  CACAGGGCAAM CACAGGGCAAM CACAGGGCAAM CACAGGGCAAM CACAGGGCAAM CACAGGAGTA AGAGCGAGT AGAGCAAAAAT AGT TAAAATTAGT TAAAATGAGT 1680	GTGAA TCAG GGTGAAGTCAG  *1040  *1140  *1140  *1140  *1150  *1150  *1250  *TCTCCGCTGC *TCTCCGCTGC *TCTCTCGCTGC *1260  *1360  *CAGCAAGTAC *CAAGTAC *C	ACCC CA CC SACCCCCAGCC  1050  V1150  CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGARARG  1270  V1370  V1480  V1500  ACCAAGCAGG  ACCAAGCAGG  ACCAAGCAGG  ACCAAGCAGG  ACCAAGCAGG  ACCAAGCAGG  1700	GATGAATGA  1060  v1160  chaggastrg chagastrg chag	ACACCACGT  v1170  strccagatage frecagatage	CAGCTTTCTG  V1180  CAATGATGAGA  CAATGAGAGAGA  A1190  V1290  V1290  V1290  ACACATCTCAAA  ACACATCTCAAAA  ACACATCTCAAAA  ACACATCTCAAAAAATTCCTAGAAAAATTCCTAGAAAAATTCCTAGAAAAATTTTTGAA  ACACATCTTTTGAAAAAATTTTTGAAAAAAATTTTTGAAACAC  V1730  TTTTGAA GCCC  CTTTTGAA GCCC  CTTTTGAA GCCC  CCTTTTGAAGGCCC  CTTTTGAAGGCCC  CTTTTGAAGGCCC  CTTTTGAAGGCCC  CCTTTTGAAGGCCC  CCTTTTGAAGGCCC  CCTTTTGAAGGCCC  CCTTTGAAGGCCC  CCTTTGAAGGCC  CCTTTGAAGCCC  CCTTTGAAGGCCC  CCTTTGAAGGCC  CCTTTGAAGGC	GGAGARGAGG  v1090  v1190 CCCTTTTATCT CCCTT T TCT CCCTTT TCT CCCTTCTGCAN  v1300 CCCCTCTGCAN  v1310  v1410 SGGAGCTGCTG  cCCGGGCTGCTGCAN  v1410 SGGAGCTGCTG  v1420  v1520 AATTGAACARA  AACAGAATTAA  v1530 v1630 FGTATATATCT FGTATATATCT FGTATATATCT FGTATATATCT FGTATATCT FGTATCT FGGTGCAGTCT FGGTGCAGTCT	V1200  TGC TGC TGC TGC TGC V1310 LAG LAG LAG LAG LAG LAG LAC V1530 LAA LAA LAA V1640 AT LAC V1750 AC AC AC
TCAA CAACC GT TTCAAGCAACCACT TTCAAGCAACCACT TCAAGCAACCACT TCAAGCAACCACT TCAAGCACTAGGACTTAG GCAT TAGGACTTAG GCAT TAGGACTTAG GCAT TAGGACTTAG TATATGT ACAGA TATATGT TCCACTGG TT TTCCACTGG TT TTCCACTGG TT TTCCACTGGTTT 40	AACCAAA TC. AACCAAAATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGACAAGCTC CACACAAGCTC CACACAAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAAGCTC CACACAACAACAACAACAACAACAACAACAACAACAAC	AC A CA CC ACGACCACCA ACGACCACCA ACGACCACCA ACGACCACCA ACGACCACACCA ACGACCACACC ACGACCACACC ACGACCACCACC ACGACCACCACC ACGCCCATC ACGCCCCATC ACGCCCCATC ACGCCCCATC ACGCACCCATC ACGCACCCATC ACGCACCCATC ACGCACCCATC ACGCACCCATC ACGCACCACC ACGCACCACCACC ACGCACCACCACC ACGCACCACCACCACC ACGCACCACCACCACCACCACCACCACCACCACCACCACC	E AG AATAR CGAGCAATAM 1030 V1130 V1130 V1130 V1130 V1140 V1240 V1240 V1240 V1240 V1240 V1250 V1350 V1350 V1460 V1460 V1460 V1460 V1460 V1570 V15	GTGAA TCAG GTGAAGTCAG  A1040  V1140  V1140  V1140  V1160  V1250  FICTCCGCTGG FICTCCGCTGG ACTACC  A1260  V1260  V1470  V14	ACCC CA CC SACCCCCAGCC  1050  V1150  CAMAGGTCTTC ANAGGTCTTC ANAGGTCTTCG ANAGGTCTTCG ANAGGTCTTCG ANAGGTCTTCG ANAGGTCTTCG ANAGGTCTTCG ANAGGTCTTCAGGTAACTTTCG ANAGGTCTTCAGGTAACTTTCG ANAGGTCC ANAGGTCTTCAGGTAACTTCG ANAGGTCTTCAGGTAACTTCG ANAGGTCTTCAGGTAACTTCAGGTAACTTCG ANAGGTCTCG ANAGGTCGC ANAGGTCGC ANAGGTCGC ANAGGTCGCAGGTCCC ANAGGTCGCAGGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC	GATGAATGA  ^1060  v1160  CAAGGAGTTG CAAGGAGAGAGAAGGC CAAGGAGAGAGAGAGAGAGAG	ACACCACGT  v1170  STCCAGGTAGG  FTCCAGGTAGG  FTCCAGGTAGG  FTCCAGGTAGG  CTCAGGTAGG  1180  v1280  STTTGGCTTAL  FTTTGGCTTAL  FTTTGGCTTAL  FTTTGGCTTAL  FTTTGGCTTAL  CTCGATGGGGG  v1390  ACTGATGGCCAAGAGGA  ACTGATGGCCAAGAGGA  CCCCAAGAGGA  CCCCAAGAGGA  CCCCAAGAGGA  CCCTTTTTAGAT  CCTTTTTAGAT  CTTTTTAGAT  CCTTTTTAGAT  CCTTTTTAGAT  CCTTTTTAGAT  CCTTTTTAGAT  CTTTTTAGAT  CCTTTTTAGAT  CCTTTTTTAGAT  CCTTTTTTTAGAT  CCTTTTTTTAGAT  CCTTTTTTTAGAT  CCTTTTTTTAGAT  CCTTTTTTTTTT	CAGCTTTCTG  V1180  CAATGATGAGAA CAATGAGGAGA  CAATGAGGACA  1190  V1290  V1290  V1290  V1290  V1400  SACATCTCAAA ACACATCTCAAA ACACATCTCAAAAATTCCTAGAA ACACTCTGTCC  11510  V1510  V1510  V1510  V1520  V1620  V1620  V1620  V1620  V1630  V1630  V1630  V1630  V1630  V1730  V173	GGAGAAGAGG  1090  1190 CCCTTTTATCT CCCTT T TCTCT  1200  1300 CCCCTCTGGAA  1310  1410 SCGASCTGCTG  1420  14520  14520  14520  14520  14520  15520  16740  1740	V1200 TGC TGC TGC TGC TGC V1310 LAG LAG LAG LAG LAG LAG LAG LAC V1530 LAA LAA LAA V1640 AT LAT LAT LAT LAT LAT LAT LAT LAT LAT
TTCAA CAACC GT TTCAAGCAACCACT 90	AACCAAR TC. AACCAARATC. AACCAARATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CACACAAGCT. CACACAGCT. CACACAGCT. CACACAGCT. CACACAGCT. CACACAGT.	AC AA CA CC ACGAACCACCC ACGACCACCCACCACCACCACCACCACCACCACCCAC	E AG AATAB CGAGCAATAM 1030 V1130 ATABABACCA: ATABABCCABGCCABGCACA: ATABABCCABGCCABGCACA: ATABABCCABGCACACCABGCACACCABGCACACCABGCACACCACCTABGCACACCACCTABGCACACCACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABGCACACCTABACAACACACCTABACAACACACCTABACAACACACAC	GTGAA TCAG GGTGAAGTCAG  *1040  *1140  *1140  *1150  *1250  *1250  *1250  *1250  *1250  *1260  *1360  *1360  *1370  *1470  *150  *150  *160  *170	ACCC CA CC SACCCCCAGCC  1050  V1150  CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGARAR  1270  V1370  CGCARGARAR  CGCARGARACT 1380  V1480  GGTARCTTTCG GGTARCTTTCG GGTARCTTTCG GTARCTTTCG GTARCTTTCG GTARCTTTCG TARATAGCAC TTRATAGCAC TTRATAGCAC TTRATAGCAC TTRATAGCAC 90  150  V1700  ATCAGGCAGG A CARGCAGG A CARGCAGG A CARGCAGG A CARGCAGG A CARGCAGG A CARGCAGG TOO  V1810  ATCAGGCAGGATT	GATGAATGA  ^1060  V1160  CAAGGAGTTG  CAAGGAGTTG  CAAGGAGTTG  ^1170  V1270  CAACCCTGCTT  CAACCCTGCTT  CAACCCTGCTT  CAACCCTGCTT  CAACCCTGCTT  CAACCCTGCTT  CAACCCTGCTT  CAACCCTGCTT  CAACCCTGCTT  CAACCCAATGCT  CAACCCAATGCT  CAACCCTAAGAT  CCCTT  CCCTT  CCCCTT  CCCCT  CCCC  CCCC  CCCC  CCCC  CCCC  CCCC  CCCC	ACAACACGT  ^1070  v1170 FTCCAGGTAG FTCCAGGTAG FTCCAGGTAG  ^1180  v1280 FTTTGGCTTAL FTTTGGCTAGGCC  ^1400  v1500 CCCCAAGAGG FCCCCAAGAGG FCCCCAAGAGG FTGCCCCAAGAGG FTGCCCCCAAGAGG FTGCCCCCCAAGAGG FTGCCCCCCAAGAGG FTGCCCCCCAAGAGG FTGCCCCCCAAGAGG FTGCCCCCCCAAGAGG FTGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CAGCTTTTCTG  1080  V1180  CAATGATGAGA CAATGACGAGA  A1190  V1290 ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCAA ACACATCTCTCA ACACATCTCTGC A1410  V1510  AAATTCCTAGA AAATTCCTAGA AAATTCTAGA AAATTTTTGAGCCC TTTTGA GCCC TTTTGA GCCCC TTTTGA GCCC TTTTGA GCCCC TTTTGA GCCCCC TTTTGA GCCCC TTTTGA GCCCCC TTTTGA GCCCC TTTTGA GCCC TTTTGA GCCC TTTTGA GCCC TTTTTA GCCC TTTTTA GCCCC TTTTTA GCCC TTTTTA GCCC TTTTA GCCC	GGAGAAGAGG  1090  1190  CCCTTTTATCT CCCTT T TCT  CCCTT T TCT  1200  V1300  CCCTTGGAA  CCCCTCTGGAA  CCCCTCTGGAA  CCCCTCTGGAA  CCCCTCTGGAA  CCCCTCTGGAA  CCCCTCTGGAA  CCCCTCTGGAA  ACCAAACAGAACAAA  AACAGAACTAAA  AACAGAACTAAAA  AACAGAACTAAAAA  AACAGAACTAAAAA  AACAGAACTAAAAA  AACAGAACTAAAAAA  AACAGAACTAAAAAAAAAA	V1200 FGC FGC FGC FGC V1310 LAG LAG LAG LAG LAG LAG LAG LAA LAA LAA
TTCAA CAACC GT TTCAAGCAACCAGT 90	AACCAAA TC. AACCAAATC. AACCAAAATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CACACAAGCT. CACACACAGCT. CACACACAGCT. CACACACACACACACACACACACACACACACACACACA	AC AC AC ACGAACCACCA ACGAACCACCC ACGACCACCACCACCACCACCACCACCACCCAC	E AG AATAR CGAGCAATAM 1030  V1130  V1130  V1140 V1240 CACAGGCAMA 11250  V1250 V1350 V1350 V1360 CACCGAGCAC V1680 V1760 CACAGTTTTP CACCAGTTTTP CACCAGTTTTP CACCAGTTTTP CACCAGTTTTP	GTGAA TCAG GGTGAACTAG  **140  **1140  **1140  **1140  **1150  **1150  **1250  **1250  **1250  **1250  **1250  **1250  **1250  **1260  **1360  **1370  **1370  **1470  **150  **1480  *	ACCC CA CC SACCCCAGCC  1050  V1150  CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC V1260  V1260  V1270  V1370  CGCARGARART CGCARGARACT CTARTAGCAC CTTARTAGCAC CTTARTAGGAC CTTARTAGAC CTTARTAGGAC CTTARTAGAC CTTARTAGAC CTTARTAGGAC CTTARTAGAC CT	### CANCERT CONTROL OF ANALYS AND CONTROL OF ANALYS	ACAACACGT  ^1070  v1170  STCCAGGTAG  FTCCAGGTAG  FTCCAGGTAG  ^1180  v1280  FTTTGGCTTAI  FTTTGGCTTAI  FTTTGGCTTAI  CATGATGGCC  ^1400  v1390  ACTGATGGCC  ^1400  v1500  CCCCAAGAGGAI  CCCCAAGAGGI  CCCCAAGAGGI  CCCCAAGAGGI  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  TGCCAGTGACG  v1830  TTCCCAGTTAT  TTCCCACAGTTAT  TTCCCACAGTTAT  TTCCCACACACACACACACACACACACACACACA	CAGCTTTTCTG	GGAGAAGAGG  ^1090  v1190  CCCTTTTATCT CCCTT T TCT CCCTTT TTCT CCCTTT TTCT CCCTTCTGCAN  1310  v1410  SCGASCTGCTG  ^1420  v1520  v1520  ANTGAACANA ANTGAACANA ANTGAACANA ANTGAACANA ANTGAACANA ANTGAACANA CTS30  v1630  v1630  v1640  v1740  GGGTGCATCT GGGTGCATCT GGGTGCATCT GGGTGCATCT GGGTGCATCT GGGTGCATCT AGGTGCATCT V1850  GACTTCACTG  ACTCACACTG  **CACTCACTG	V1200 FGC FGC FGC V1310 AAG AAG AAA AAA AAA AAA AAA AAA AAA AA
TITCAA CAACC 6T TITCAAGCAACCAGT TITCAAGCAACCAGT 090	AACCAAA TC. AACCAAATC. AACCAAAATC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CAGATGTAAC. CACACAAGCT. CACACACAGCT. CACACACAGCT. CACACACACACACACACACACACACACACACACACACA	AC AC AC ACGAACCACCA ACGAACCACCC ACGACCACCACCACCACCACCACCACCACCCAC	E AG AATAB CGAGCAATAM 1030  V1130  V1130  V1140 V1240  V1240 V1240 CACAGGGCAA CACAGGGCAA CACAGGCAAA CACAGGCAAA CACAGGCAAA CACAGGACAAA CACAGGACAAC CACAGGACAA CACAGGACAAC CACAGGACAAC CACAGGACAAC CACAGGACAAC CACAGGACAC CACAGACAC CACAGGACAC CACAGACAC CACAGGACAC CACAGACAC CACAGGACAC CACAGGACAC CACAGACAC CA	GTGAA TCAG GGTGAACTAG  **140  **1140  **1140  **1140  **1150  **1150  **1250  **1250  **1250  **1250  **1250  **1250  **1250  **1260  **1360  **1370  **1370  **1470  **150  **1480  *	ACCC CA CC SACCCCAGCC 1050 V1150 CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGTCTTC CARAGGARARG CARAGARART CARAGARART CARAGARART CARAGARAT CARAGARACTTCG GTARCTTCG CARAGARACT CARAGARG V1590 V1590 CTARATAGCAC TTARTAGCAC V1700 ATCARGGRAT CARAGGRAG CARAGCAGG A CARAGCAGG A CARAGCAGG A CARAGCAGG	### CANCERT CONTROL OF ANALYS AND CONTROL OF ANALYS	ACAACACGT  ^1070  v1170  STCCAGGTAG  FTCCAGGTAG  FTCCAGGTAG  ^1180  v1280  FTTTGGCTTAI  FTTTGGCTTAI  FTTTGGCTTAI  CATGATGGCC  ^1400  v1390  ACTGATGGCC  ^1400  v1500  CCCCAAGAGGAI  CCCCAAGAGGI  CCCCAAGAGGI  CCCCAAGAGGI  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  CTTTTTAGAT  TGCCAGTGACG  v1830  TTCCCAGTTAT  TTCCCACAGTTAT  TTCCCACAGTTAT  TTCCCACACACACACACACACACACACACACACA	CAGCTTTTCTG	GGAGAAGAGG  ^1090  v1190  CCCTTTTATCT CCCTT T TCT CCCTTT TTCT CCCTTT TTCT CCCTTCTGCAN  1310  v1410  SCGASCTGCTG  ^1420  v1520  v1520  ANTGAACANA ANTGAACANA ANTGAACANA ANTGAACANA ANTGAACANA ANTGAACANA CTS30  v1630  v1630  v1640  v1740  GGGTGCATCT GGGTGCATCT GGGTGCATCT GGGTGCATCT GGGTGCATCT GGGTGCATCT AGGTGCATCT V1850  GACTTCACTG  ACTCACACTG  **CACTCACTG	V1200 FGC FGC FGC V1310 AAG AAG AAA AAA AAA AAA AAA AAA AAA AA

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BEST AVAILABLE COPY

v110 GG GG GG A110 A2 A2 A330
00 GGGGGG GGGGGGG GGGGGGG 0 TGKMMP TGKMMP 0 0 TLLSAVI
v100 SGGSGI SGGSGI CGGSGI CGGSGI V2 V2 V320 V320 V320
SRPPS SRPPS SRPPS SRPPS SPPPS
v90 srcrcrcri srcrcrcri 200 Lichyvdi Lichyvdi Lichyvdi 100 V310 V310 V310 V310 V310 V310 V310
V V V V V V V V V V V V V V V V V V V
v80 GRGRGRGR GRGRGRGR GRGRGRGR A90 v190 KFRSKPQLA 190 v300 rEQIIKTWE FEQIIKTWE FEGIIKTWE FEGIIKT
SGRGR(GRGRGR)  SGRKFF  GKKFF  GKKFF  COKKFF  CDVTEC  DVTEC  EMDSG  DMDSG  A4
v70 kGGGVCGR kGGGVCGR kGGGVCGR cGGGVCGR v180 v180 vYYFSPSR vYYFSPSR vYYFSPSR vYYFSPSR vYYFSPSR vYYFSPSR vYYFSPSR vYYFSPSR v290 v290 v400 bTEEMDIE bTEEVDID
AGRGGGV A:RGGGV AARGGGV AARGGGV ATO V CSDVYYES KSDVYYES KSDVYYES KSDVYYES KSDVYYES KSDVYYES CSDVYYES ALBOGLS V290 AAADTEEV CAADTEEV
0 GGRWKQi GGRWKQi SRWKQi 0 v170 v170 slsAGk slsAGk v280 v280 v280 v280 v390 v390 v390 v390 v101LSR
v60 GGRGRGRW GGRGRGRW C60 v1 v1 VIRKSGLS VIRKSGL
DEGARGE EGARGE EGARGE O VALO WKKEEV WKKEEV WKKEEV O V O O V O O V O O V O O V O O
v50 SGVRREGS SGVRREGS SGVRREGS SGVRREGS V50 V1 PEGWKI LLPEGWK LLPEGWK LLPEGWK V2
APSPV% APSPV% APSPV% ADSPVS AMDCPA WMDCPA V360 V370 V370 V370 V370 V370 V370 V370 V37
v40 jGSALAPP jGSALAPP jGSALAPP v3 v3 rESGKRMI ESGKRMI ESGKRMI ESGKRMI CALSO v2 rVZ rVTKVTN rVTKTTN v2 rVZ TDEDIRK TDEDIRK TDEDIRK TDEDIRK TDEDIRK TDEDIRK TDEDIRK TDEDIRK TOEDIRK TOED
D IEQGGG IEQGGG IEQGGG IEQGGG V140 V250 V250 V250 V250 V250 V250 V250 V25
V20   V30   V40   V50   V60   V70   V80   V90   V100   V
9 5GSGAG 5GSGAG 5GSGAG 5GSGAG 7130 7
v20 ESAAGG ESAAGG ESAAGG ESAAGG CESAAGG CESAAGG CESAAGG CA0  VAISOPFF CA130 CA
PEQEEG PEQEEG PEQEEG PEQEEG V120 V120 GGAPRRI SAPRRI SAPRR
VICCE CCCE CCCE CCCE CCCE CCCE CCCE CCCE
RAHPGGGRG RAHPGGGRG RAHPGGGRG S3GGSG S3GGSG SXMCQRLRN NUNCQRLRN NUNCQRLRN HTSSAPIT HTSSAPIT HTSSAPIT
MRN WRN WRN WRN 1: 6 6 GAG LOGY LOGY 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

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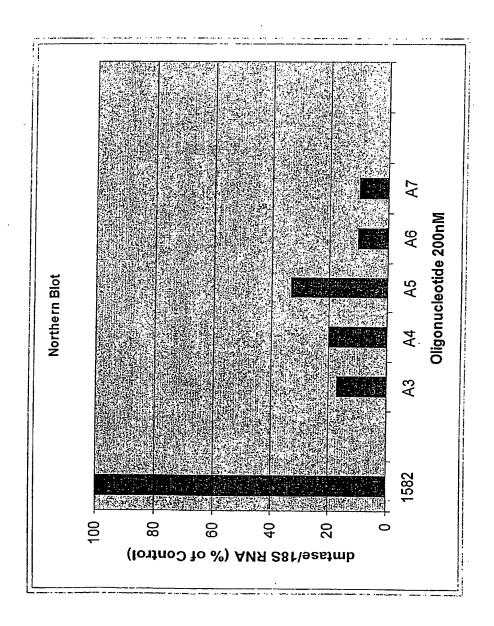
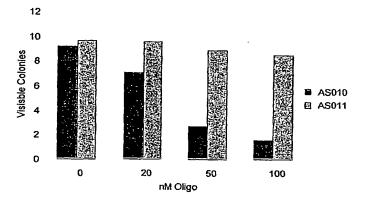
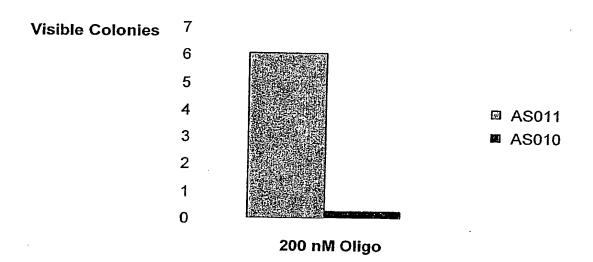
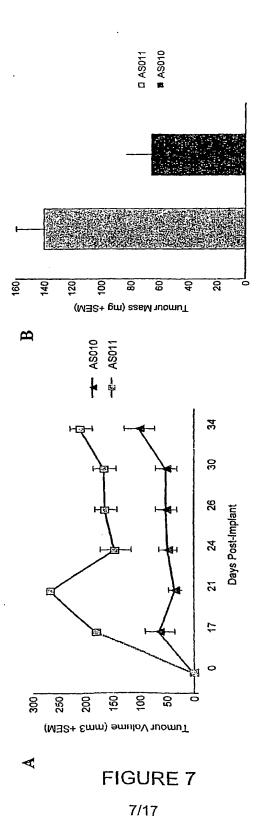


FIGURE 4







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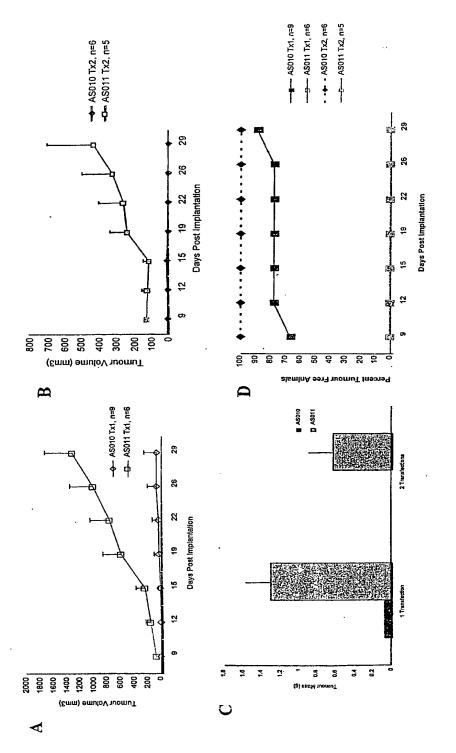


FIGURE 8

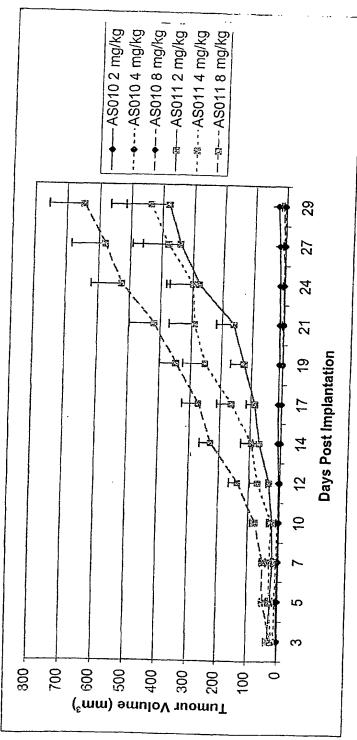


FIGURE 9

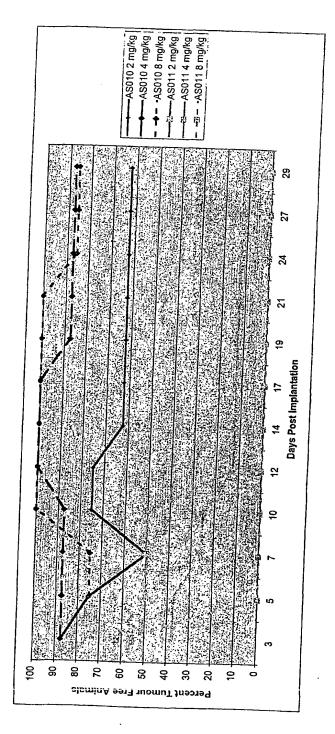


FIGURE 10 10/17

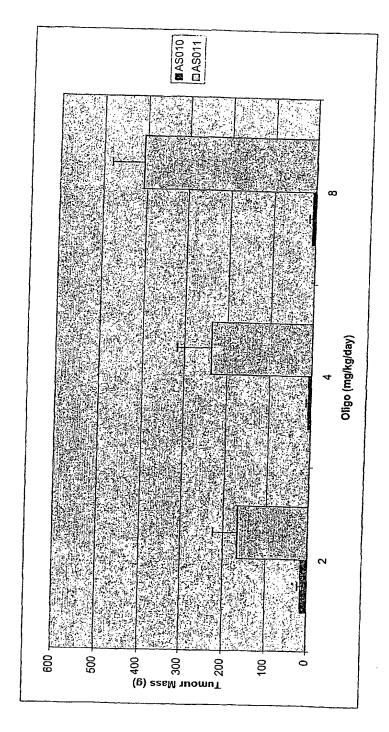
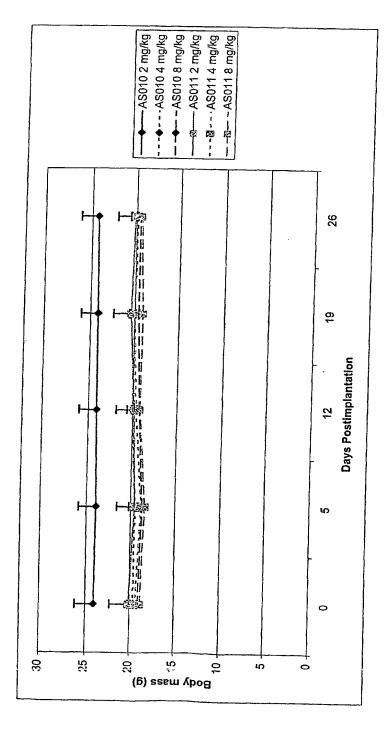
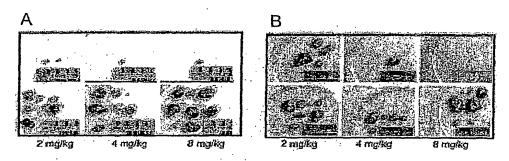


FIGURE 11

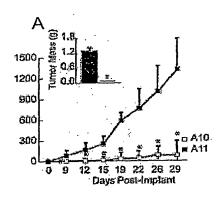
FIGURE 12

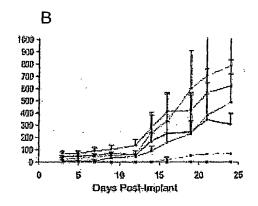


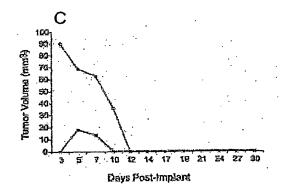
12/17



Oligonucleotide dose







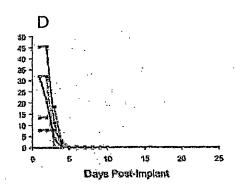
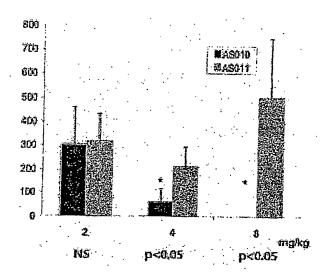
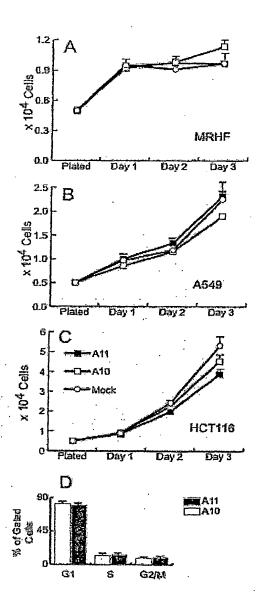
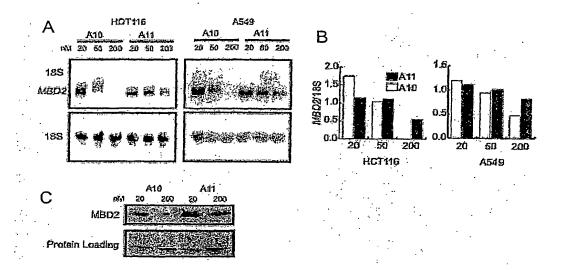


FIGURE 15





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